Appendix F

Analytical Data Tables

ARCADIS

DARSP Soil Sampling Data Tables

Appendix F - Analytical Data Tables
Background Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location Depths (ft) Sample Date Sample ID	SO-DA-BG-001 0-0.5 ft 8/15/2013 SO-DA-BG-001(0.0-0.5)	SO-DA-BG-002 0-0.5 ft 8/15/2013 SO-DA-BG-002(0.0-0.5)	SO-DA-BG-003 0-0.5 ft 8/15/2013 SO-DA-BG-003(0.0-0.5)	SO-DA-BG-004 0-0.5 ft 8/15/2013 SO-DA-BG-004(0.0-0.5)	SO-DA-BG-005 0-0.5 ft 8/15/2013 SO-DA-BG-005(0.0-0.5)	SO-DA-BG-006 0-0.5 ft 8/15/2013 SO-DA-BG-006(0.0-0.5)
Chemical	**Units**						
Grain Size							
Sieve 3 inch, % passing	% passing	100	100	100	100	100	100
Sieve 1.5 inch, % passing	% passing	100	100	100	100	100	100
Sieve 0.75 inch, % passing	% passing	100	92.0	97.1	100	94.8	100
Sieve, 4750 micron, % passing	% passing	98.4	73.1	86.0	99.9	76.4	79.0
Sieve, 3350 micron, % passing	% passing	97.3	66.3	82.2	99.7	67.1	70.8
Sieve, 2360 micron, % passing	% passing	95.5	59.9	76.5	99.5	56.8	63.2
Sieve, 1180 micron, % passing	% passing	92.9	49.3	69.4	98.5	47.0	54.9
Sieve, 600 micron, % passing	% passing	90.1	33.1	63.3	96.8	42.1	49.8
Sieve, 300 micron, % passing	% passing	85.4	21.5	58.9	95.1	39.3	45.7
Sieve, 75 micron, % passing	% passing	66.2	16.8	49.1	91.0	33.7	39.7
Sieve, 64 micron, % passing	% passing	63.0	16.0	47.0	88.0	31.0	38.0
Sieve, 50 micron, % passing	% passing	56.0	14.0	42.0	82.0	30.0	34.0
Sieve, 20 micron, % passing	% passing	40.0	9.0	30.0	64.0	24.0	25.0
Sieve, 5 micron, % passing	% passing	20.0	4.0	16.0	25.0	15.0	16.0
Sieve, 2 micron, % passing	% passing	13.0	1.0	10.0	13.0	10.0	9.0
Sieve, 1 micron, % passing	% passing	9.5	0.50	6.0	5.0	7.0	7.0
Metals							
Arsenic	mg/kg	5.60 J	4.98 J	17.3 J	3.68 J	15.7 J	12.7 J
Barium	mg/kg	63.7	124	76.4	86.0	95.8	125
Cadmium	mg/kg	0.279 J	0.173 J	0.313 J	0.180 J	0.177 J	< 0.575 UJ
Chromium	mg/kg	18.5	15.3	30.6	21.1	42.8	35.7
Lead	mg/kg	49.3	10.9	115	22.4	29.1	27.8
Mercury	mg/kg	0.0227 J	0.0125 J	0.0296 J	0.0210 J	0.0724 J	0.0404 J
Nickel	mg/kg	7.93	11.5	17.2	10.8	30.6	50.9
Selenium	mg/kg	1.13 J	< 2.38 U	2.08 J	< 2.82 U	2.50	2.39
Silver	mg/kg	0.219 J	< 0.594 U	0.540 J	< 0.704 U	0.624	0.709
Vanadium	mg/kg	25.6	20.9	30.8	24.0	29.4	33.4
Other							
Black Carbon	%	< 0.18 U	0.18 J	0.48 J	< 0.19 U	< 0.18 U	< 0.2 U
Percent Moisture	%	16.4	15.8	14.8	30.4	15.3	14.8
Total Organic Carbon	%	1.51	0.53	2.39	2.26	0.82	1.42
Priority PAHs							
1-Methylnaphthalene	ug/kg	2.85	1.09	10.7	2.38	6.78	3.74
2-Methylnaphthalene	ug/kg	5.38	2.73	15.8	4.97	15.3	8.28
Acenaphthene	ug/kg	0.856	0.335	0.912	1.03	1.12	1.96
Acenaphthylene	ug/kg	3.20	0.565	14.2	5.08	1.09	1.51
Anthracene	ug/kg	4.25	0.726	18.5	11.6	0.867	2.68
Benzo(a)Anthracene	ug/kg	5.88	0.858	51.3	19.2 J	2.55	12.1
Benzo(a)Pyrene	ug/kg	3.70	0.697	36.5	17.4 J	1.45	4.93
Benzo(b)Fluoranthene	ug/kg	19.9	3.63	139	46.5	12.7	26.0
Benzo(g,h,i)Perylene	ug/kg	7.35	1.75	52.1	16.5 J	3.71	10.9
Benzo(j)+(k)Fluoranthene	ug/kg	7.20	0.731	52.4	16.4 J	1.99	7.70
Chrysene/Triphenylene	ug/kg	16.2	2.78	86.2	24.2 J	9.09	21.0
Dibenz(a,h)Anthracene	ug/kg	2.29	< 0.1 U	17.0	5.56	1.20	3.74
Fluoranthene	ug/kg	30.5	2.80	98.5	22.3 J	9.95	31.6
Fluorene	ug/kg	5.29	2.68	4.26	3.82	9.17	5.43
Indeno[1,2,3-cd]pyrene	ug/kg	7.06	1.25	47.1	15.8 J	3.09	10.0
Naphthalene	ug/kg	6.58	1.92	13.4	5.88	14.9	10.5
Phenanthrene	ug/kg	27.0	8.27	42.2	12.0	27.1	30.0
Pyrene	ug/kg	19.4	2.34	72.2	22.1 J	7.32	25.5
Forensic PAHs							
Benzo(e)Pyrene	ug/kg	9.41	1.92	66.3	21.3 J	4.13	11.4
C1-Chrysenes	ug/kg	4.48	< 0.2 U	37.4	13.4	2.37	7.13
C1-Fluoranthenes/Pyrenes	ug/kg	7.21	5.17	38.5	18.0	3.56	11.0
C1-Fluorenes	ug/kg	2.35	2.55	4.14	2.34	4.08	3.22
C1-Phenanthrenes/Anthracenes	ug/kg	11.4	7.36	37.7	9.54	14.1	13.9
C2-Chrysenes	ug/kg	3.87	< 0.2 U	20.0	6.89	2.42	5.39
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	14.2	5.24	5.85	< 0.4 U
C2-Naphthalenes	ug/kg	10.9	5.87	29.9	10.0	27.8	13.6
C2-Phenanthrenes/Anthracenes	ug/kg	8.60	7.61	32.5	9.43	11.1	10.5
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	13.2	2.75	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	25.0	8.36	13.1	< 0.4 U
C3-Naphthalenes	ug/kg	7.85	8.82	29.0	16.5	24.4	11.7
C3-Phenanthrenes/Anthracenes	ug/kg	4.20	4.22	23.0	11.2	4.76	4.99
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	7.75	< 0.2 U	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	6.85	5.92	17.9	7.77	11.9	6.83
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	5.56	17.2	10.4	2.10	5.06
Perylene	ug/kg	0.680 J	0.820 J	5.55 J	5.47 J	R	0.676 J
Phenanthrene, 2-methyl-	ug/kg	4.42	2.72	17.3	2.27	6.70	6.46
1,1-Biphenyl	ug/kg	2.19	2.53	8.90	1.96	5.13	4.57
18a-Oleanane	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U

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Background Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-BG-001	SO-DA-BG-002	SO-DA-BG-003	SO-DA-BG-004	SO-DA-BG-005	SO-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013
	Sample ID	SO-DA-BG-001(0.0-0.5)	SO-DA-BG-002(0.0-0.5)	SO-DA-BG-003(0.0-0.5)	SO-DA-BG-004(0.0-0.5)	SO-DA-BG-005(0.0-0.5)	SO-DA-BG-006(0.0-0.5)
Chemical	**Units**						
1-Methyldibenzothiophene(1MDT)	ug/kg	< 0.213 UB	< 0.093 UB	1.03	< 0.163 UB	0.509	< 0.406 UB
1-Methylfluorene	ug/kg	1.06	0.925	1.94	0.882	1.89	1.20
1-Methylphenanthrene	ug/kg	2.04	0.783	8.17	0.695	2.16	2.16
2,3,5-Trimethylnaphthalene	ug/kg	1.18	0.975	4.68	0.888	3.28	1.18
2/3-Methyldibenzothiophene(2MDT)	ug/kg	< 0.617 UB	< 0.413 UB	2.20	< 0.588 UB	1.85	1.37
2-Methylanthracene	ug/kg	5.15	4.81	8.46	6.79	4.67	5.08
2-Methylfluoranthene	ug/kg	1.77	8.41	10.6	3.45	0.576	2.01
3,6-Dimethylphenanthrene	ug/kg	0.570	0.407	2.12	0.613	0.910	0.786
3-Methylphenanthrene (3MP)	ug/kg	3.42	1.83	12.5	2.00	5.14	4.73
4-Methyldibenzothiophene(4MDT)	ug/kg	< 0.536 UB	< 0.550 UB	3.10	< 0.634 UB	2.29	1.82
9/4-Methylphenanthrene (9MP)	ug/kg	2.42	1.10	11.1	2.83	2.85	2.75
Benzo(a)Fluoranthene	ug/kg	1.96	0.287	12.4	8.32	0.911	3.24
Benzo(b)fluorene	ug/kg	0.994	1.56	2.7	4.24	0.535	2.39
Benzothiophene	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	0.579	0.483
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C1-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C1-Dibenzothiophenes	ug/kg	< 1.05 UB	< 0.814 UB	4.88	< 1.07 UB	3.59	2.77
C1-Naphthalenes	ug/kg	5.47	2.55	17.5	4.89	14.7	8.01
C1-Naphthobenzothiophenes	ug/kg	3.15	< 0.3 U	15.0	< 0.3 U	4.34	4.66
C20-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C21-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C26(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C27(20R)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C28(20R)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C28(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C29-Hopane	ug/kg	< 0.6 U	26.5	20.2	< 0.6 U	< 0.6 U	< 0.6 U
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C2-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C2-Dibenzothiophenes	ug/kg	< 1.30 UB	< 1.31 UB	6.07	< 2.58 UB	5.52	< 3.85 UB
C2-Fluoranthenes/Pyrenes	ug/kg	12.0	7.10	73.2	51.3	5.47	10.7
C2-Naphthobenzothiophenes	ug/kg	3.19	< 0.3 U	16.8	< 0.3 U	2.75	4.76
C30-Hopane	ug/kg	< 0.6 U	23.2	24.3	< 0.6 U	< 0.6 U	< 0.6 U
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C3-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C3-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	5.41	< 2.43 UB	4.02	3.23
C3-Fluoranthenes/Pyrenes	ug/kg	4.89	< 0.5 U	31.4	10.7	2.25	4.42
C3-Naphthobenzothiophenes	ug/kg	2.15	< 0.3 U	20.4	< 0.3 U	2.33	4.06
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	3.32	4.67	2.35	2.39
C4-Fluoranthenes/Pyrenes	ug/kg	3.62	< 0.5 U	36.5	4.01	< 0.5 U	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	< 0.3 U	< 0.3 U	10.8	< 0.3 U	< 0.3 U	< 0.3 U
Carbazole	ug/kg	3.23	0.860	7.53	2.92	2.35	3.77
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Dibenzofuran	ug/kg	5.09	2.27	8.15	3.82	8.75	4.61
Dibenzothiophene	ug/kg	1.13	0.789	3.26	1.03	3.23	3.34
Naphthalene, 2,6-dimethyl-	ug/kg	4.42	2.97	11.4	4.00	14.0	6.48
Naphthobenzothiophene	ug/kg	3.51	< 0.1 U	23.2	7.95	2.35	5.63
Retene	ug/kg	< 0.2 U	1.40	9.28	10.9 J	1.47	1.94
VOCs							
1,1,1,2-Tetrachloroethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 12 U	< 11 U	< 11 U	< 14 U	< 12 U	< 12 U
1,1-Dichloroethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1-Dichloroethene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1-Dichloropropene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dichloroethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dichloropropane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,3-Dichloropropane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U

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Background Soil Data

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Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-BG-001	SO-DA-BG-002	SO-DA-BG-003	SO-DA-BG-004	SO-DA-BG-005	SO-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013
	Sample ID	SO-DA-BG-001(0.0-0.5)	SO-DA-BG-002(0.0-0.5)	SO-DA-BG-003(0.0-0.5)	SO-DA-BG-004(0.0-0.5)	SO-DA-BG-005(0.0-0.5)	SO-DA-BG-006(0.0-0.5)
Chemical	**Units**						
2,2-Dichloropropane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
2-Butanone (MEK)	ug/kg	10 J	16	10 J	< 14 U	8 J	< 12 U
2-Chlorotoluene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
2-Phenylbutane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
4-Chlorotoluene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 12 U	< 11 U	< 11 U	< 14 U	< 12 U	< 12 U
Acetone	ug/kg	120	170	100	48	140	57
Allyl chloride	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Benzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromobenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromochloromethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromodichloromethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromomethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Carbon Tetrachloride	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Chlorobenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Chloroethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Chloroform	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Chloromethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Dibromochloromethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Dibromomethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Dichlorofluoromethane	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Ethylbenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
n-Butylbenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
n-Propylbenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Styrene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Tert-Butylbenzene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Tetrachloroethene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Tetrahydrofuran	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Toluene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Trichloroethene	ug/kg	2 J	3 J	< 6 U	4 J	2 J	2 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Vinyl Chloride	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U
Xylene (Total)	ug/kg	< 6 U	< 5 U	< 6 U	< 7 U	< 6 U	< 6 U

Appendix F - Analytical Data Tables
Background Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

% = percent

< = less than the limit of quantitation

B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)

ft = feet

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

mg/kg = milligrams per kilogram

PAH = polycyclic aromatic hydrocarbons

R = The sample results are rejected

TPH = total petroleum hydrocarbon

U = Compound was not detected

UB = Compound considered non-detect at the listed value due to associated blank contamination.

ug/kg = micrograms per kilogram

UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

VOCs = volatile organic compounds

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location Depths (ft) Sample Date Sample ID	SO-DA-001 0-0.5 ft 8/13/2013 SO-DA-001(0.0-0.5)	SO-DA-001 0.5-1 ft 8/13/2013 SO-DA-001(0.5-1.0)	SO-DA-001 1-1.5 ft 8/13/2013 SO-DA-001(1.0-1.5)	SO-DA-002 0-0.5 ft 8/13/2013 SO-DA-002(0.0-0.5)	SO-DA-002 0.5-1 ft 8/13/2013 SO-DA-002(0.5-1.0)	SO-DA-002 1-1.5 ft 8/13/2013 SO-DA-002(1.0-1.5)	SO-DA-003 0-0.5 ft 8/13/2013 SO-DA-003(0.0-0.5)	SO-DA-003 0-0.5 ft 8/13/2013 SO-DA-DUP-06-081313FD	SO-DA-003 0.5-1 ft 8/13/2013 SO-DA-003(0.5-1.0)	SO-DA-003 1-1.5 ft 8/13/2013 SO-DA-003(1.0-1.5)	SO-DA-004 0-0.5 ft 8/13/2013 SO-DA-004(0.0-0.5)	SO-DA-004 0.5-1 ft 8/13/2013 SO-DA-004(0.5-1.0)
Chemical	**Units**												
Grain Size													
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	95.8	NA	NA	100	NA	NA	100	NA	NA	NA	98.5	NA
Sieve, 4750 micron, % passing	% passing	92.2	NA	NA	95.9	NA	NA	96.5	NA	NA	NA	86.5	NA
Sieve, 3350 micron, % passing	% passing	91.4	NA	NA	94.6	NA	NA	95.2	NA	NA	NA	83.8	NA
Sieve, 2360 micron, % passing	% passing	90.8	NA	NA	93.7	NA	NA	94.2	NA	NA	NA	80.8	NA
Sieve, 1180 micron, % passing	% passing	90.1	NA	NA	92.9	NA	NA	93.1	NA	NA	NA	78.3	NA
Sieve, 600 micron, % passing	% passing	88.5	NA	NA	89.0	NA	NA	90.3	NA	NA	NA	75.7	NA
Sieve, 300 micron, % passing	% passing	86.3	NA	NA	81.7	NA	NA	86.2	NA	NA	NA	73.4	NA
Sieve, 150 micron, % passing	% passing	80.3	NA	NA	69.3	NA	NA	71.4	NA	NA	NA	67.2	NA
Sieve, 75 micron, % passing	% passing	70.2	NA	NA	58.3	NA	NA	58.0	NA	NA	NA	59.3	NA
Sieve, 64 micron, % passing	% passing	66.5	NA	NA	56.0	NA	NA	54.0	NA	NA	NA	55.0	NA
Sieve, 50 micron, % passing	% passing	60.0	NA	NA	49.5	NA	NA	48.0	NA	NA	NA	47.0	NA
Sieve, 20 micron, % passing	% passing	36.0	NA	NA	36.0	NA	NA	35.0	NA	NA	NA	32.0	NA
Sieve, 5 micron, % passing	% passing	15.0	NA	NA	19.5	NA	NA	12.5	NA	NA	NA	16.0	NA
Sieve, 2 micron, % passing	% passing	9.5	NA	NA	15.0	NA	NA	8.5	NA	NA	NA	9.5	NA
Sieve, 1 micron, % passing	% passing	8.0	NA	NA	12.0	NA	NA	8.0	NA	NA	NA	7.0	NA
Metals													
Arsenic	mg/kg	7.51	6.92	13.7	7.17	7.99	7.36	4.01	3.61	4.84	4.48	6.41	7.59
Barium	mg/kg	91.9	80.5	75.8	55.5	69.2	85.9	65.4	61.6	68.4	65.8	89.2	74.1
Cadmium	mg/kg	0.221 J	0.187 J	< 0.547 U	0.183 J	< 0.575 U	0.265 J	0.192 J	0.209 J	0.353 J	0.356 J	0.390 J	0.688
Chromium	mg/kg	26.0 J	26.8 J	36.1 J	23.0 J	24.7 J	21.2 J	12.6 J	13.1 J	16.8 J	17.2 J	19.2 J	26.9 J
Lead	mg/kg	16.3	19.3	18.6	13.9	17.8	25.6	9.86	11.2	28.9	13.5	27.2	27.4
Mercury	mg/kg	0.0482 J	0.0504 J	0.0352 J	0.0187 J	0.0332 J	0.0585 J	0.0153 J	0.0161 J	0.0261 J	0.0158 J	0.0252 J	0.0230 J
Nickel	mg/kg	12.3	12.8	9.62	9.96	16.9	16.8	9.09	10.4	11.1	9.87	18.4	9.38
Selenium	mg/kg	1.40 J	1.59 J	3.40	1.66 J	2.26 J	1.62 J	< 2.53 U	< 2.40 U	< 2.37 U	< 2.40 U	1.14 J	1.24 J
Silver	mg/kg	0.279 J	0.201 J	0.643	< 0.630 U	0.328 J	< 0.672 U	< 0.632 U	< 0.599 U	< 0.592 U	< 0.600 U	< 0.606 U	0.211 J
Vanadium	mg/kg	26.7	25.8	30.6	32.8	32.6	25.9	18.1	18.5	24.3	28.3	27.6	31.8
Other													
Black Carbon	%	< 0.2 U	NA	NA	< 0.18 U	NA	NA	< 0.19 U	< 0.18 U	NA	NA	0.31 J	NA
Percent Moisture	%	19.4	19.1	9.5	23.0	15.6	27.1	21.7	19.8	17.2	16.6	20.6	18.5
Total Organic Carbon	%	2.04	NA	NA	1.27	NA	NA	2.12	2.18	NA	NA	2.98	NA
Priority PAHs													
1-Methylnaphthalene	ug/kg	6.51	5.31	1.70	2.87	7.82	4.88	9.15	< 0.5 UJ	9.99	3.95	2.27	17.8
2-Methylnaphthalene	ug/kg	13.9	11.5	3.23	5.77	17.7	8.44	22.9	23.7	17.6	7.63	5.28	27.5
Acenaphthene	ug/kg	0.563	< 0.1 U	< 0.1 U	0.482	1.79	0.990	< 0.5 U	0.930	9.50	0.321	< 0.1 U	0.641
Acenaphthylene	ug/kg	1.19	0.621	< 0 U	0.504	1.17	1.27	< 0.2 U	2.80 J	3.41	0.310	2.43	2.95
Anthracene	ug/kg	1.29	0.443	0.218	0.674	0.681	1.55	1.84	4.80 J	17.2	< 0.1 U	3.65	4.37
Benzo(a)Anthracene	ug/kg	4.71	1.77	0.331	1.57	0.816	2.24	36.5	10.9 J	68.5	0.904	9.69	8.50
Benzo(a)Pyrene	ug/kg	2.31	1.04	0.106	0.849	0.598	2.66	43.7	23.9 J	37.9	0.496	9.51	4.47
Benzo(b)Fluoranthene	ug/kg	9.91	5.59	1.15	4.59	4.85	9.75	61.8	42.4	87.6	2.11	26.7	21.1
Benzo(g,h,i)Perylene	ug/kg	4.05	2.52	0.271	2.43	1.88	3.38	59.0	40.0	26.9	0.87	18.2	5.26
Benzo(j)+(k)Fluoranthene	ug/kg	3.02	1.40	0.167	1.20	0.701	1.48	26.0	12.3 J	42.8	0.611	9.16	7.06
Chrysene/Triphenylene	ug/kg	7.70	3.19	1.18	4.20	2.75	5.64	94.6	90.3	84.2	2.29	31.4	20.0
Dibenz(a,h)Anthracene	ug/kg	1.88	0.507	0.147	0.789	0.544	1.15	10.9	7.64	10.8	0.382	3.90	2.26
Fluoranthene	ug/kg	11.3 J	5.02 J	1.22 J	4.21	7.95 J	8.29 J	47.3	24.0 J	179	2.89	12.6	18.7
Fluorene	ug/kg	14.9	8.16	< 0.2 U	3.82	20.0	9.90	7.88	6.10	17.2	5.52	2.53	9.83
Indeno[1,2,3-cd]pyrene	ug/kg	4.25	2.86	0.453	2.69	1.42	1.68	26.4	14.0 J	30.4	0.705	7.93	5.02
Naphthalene	ug/kg	12.0	13.4	4.46	6.95	18.5	9.21	12.9	12.9	20.0	8.84	3.34	27.7
Phenanthrene	ug/kg	43.2	22.6	4.98	10.7	47.1	26.6	20.2	32.4	169	13.90	7.32	48.7
Pyrene	ug/kg	7.95	2.93	0.539	3.56	3.79	5.42	68.2 J	61.5	127 J	1.50 J	21.7 J	11.1 J
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	5.74	3.27	0.619	2.60	2.49	4.53	77.9	57.3	45.4	1.53	27.0	12.1
C1-Chrysenes	ug/kg	7.18	3.51	< 0.2 U	4.12	2.12	4.39	168	210	38.3	3.05	70.3	19.7
C1-Fluoranthenes/Pyrenes	ug/kg	9.68	4.02	< 0.5 U	3.32	3.22	5.42	182	154	66.0	2.61	85.1	17.2
C1-Fluorenes	ug/kg	6.49	3.15	< 0.4 U	1.63	9.62	4.86	38.1	22.8	9.73	2.22	12.1	5.67
C1-Phenanthrenes/Anthracenes	ug/kg	15.9	10.1	5.79	8.44	16.4	13.9	114	112	60.8	6.46	30.5	37.7
C2-Chrysenes	ug/kg	6.39	< 0.2 U	< 0.2 U	3.40	< 0.2 U	< 0.2 U	235	253	26.2	3.13	107	21.2
C2-Fluorenes	ug/kg	10.9	< 0.4 U	< 0.4 U	2.20	< 0.4 U	< 0.4 U	< 1.8 U	74.8 J	13.6	< 0.4 U	44.9	18.2
C2-Naphthalenes	ug/kg	25.1	16.5	5.78	8.26	28.2	15.1	74.4	34.1 J	23.6	8.25	10.8	42.5
C2-Phenanthrenes/Anthracenes	ug/kg	13.1	10.2	< 0.3 U	7.36	12.8	13.3	290	369	39.3	6.84	144	34.4
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	2.76	< 0.2 U	< 0.2 U	183	157	15.6	1.91	81.3	14.5
C3-Fluorenes	ug/kg	13.5	< 0.4 U	< 0.4 U	3.36	< 0.4 U	< 0.4 U	< 1.8 U	226 J	14.3	< 0.4 U	77.0	26.7
C3-Naphthalenes	ug/kg	15.2	9.49	5.64	8.78	26.8	19.0	196	101 J	14.6	4.32	35.5	28.8
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	3.50	5.20	5.74	445	658	20.4	3.59	293	24.3
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	2.43	< 0.2 U	< 0.2 U	107	49.9 J	6.01	< 0.2 U	46.2	5.92
C4-Naphthalenes	ug/kg	52.2	< 0.7 U	< 0.7 U	7.18	11.2	15.2	350	110 J	19.0	< 0.7 U	105	22.7
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	2.99	< 0.3 U	< 0.3 U	430	400	23.7	2.95	242	26.5
Perylene	ug/kg	1.11 J	R	R	0.430 J	0.184 J	0.873 J	20.8	14.8	7.90 J	0.252 J	5.12	0.737 J
C1-Dibenzothiophenes	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	0.773	2.83	2.29	126	106	7.44	1.20	27.9	6.13
C1-Naphthalenes	ug/kg	13.1	10.8	3.15	5.57	16.4	8.51	21.2	15.3	18.2	7.64	4.99	29.8

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-001	SO-DA-001	SO-DA-001	SO-DA-002	SO-DA-002	SO-DA-002	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-004	SO-DA-004
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
	Sample ID	SO-DA-001(0.0-0.5)	SO-DA-001(0.5-1.0)	SO-DA-001(1.0-1.5)	SO-DA-002(0.0-0.5)	SO-DA-002(0.5-1.0)	SO-DA-002(1.0-1.5)	SO-DA-003(0.0-0.5)	SO-DA-DUP-06-081313FD	SO-DA-003(0.5-1.0)	SO-DA-003(1.0-1.5)	SO-DA-004(0.0-0.5)	SO-DA-004(0.5-1.0)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	1.25	3.47	2.12	416	375	8.95	1.94	150	7.34
C2-Fluoranthenes/Pyrenes	ug/kg	12.5	6.39	< 0.5 U	3.55	3.97	7.35	318	271	71.0	4.86	118	36.6
C3-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	1.41	2.08	2.21	418	523	11.2	1.92	289	7.35
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	3.28	< 0.5 U	2.93	< 0.5 U	4.39	254	304	22.1	2.44	102	22.0
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	2.20	< 0.2 U	1.35	438	648	12.2	2.04	324	6.81
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	2.40	< 0.5 U	< 0.5 U	261	265	29.7	< 0.5 U	122	32.5
Dibenzothiophene	ug/kg	2.38	1.43	0.446	0.802	3.80	1.80	18.6	15.3	9.12	0.933	4.14	4.18
VOCs													
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 11 U	< 12 U	< 11 U	< 11 U	< 12 U	< 12 U	< 13 U	< 11 U	< 11 U	< 12 U	< 11 U	< 12 U
1,1-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
2-Butanone (MEK)	ug/kg	4 J	9 J	10 J	< 11 U	< 12 U	< 12 U	19	22	< 11 U	< 12 U	9 J	< 12 U
2-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
2-Phenylbutane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 11 U	< 12 U	< 11 U	< 11 U	< 12 U	< 12 U	< 13 U	< 11 U	< 11 U	< 12 U	< 11 U	< 12 U
Acetone	ug/kg	130	130	130	45	27	25	160	140	33	< 24 U	75	51
Allyl chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Benzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	0.7 J	0.7 J	< 5 U	< 6 U	< 5 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Chloroform	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
Isopropylbenzene (Cumene)	ug/kg	16	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	34	5 J	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
Styrene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 UJ	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Toluene	ug/kg	2 J	2 J	< 5 U	< 6 U	< 6 U	< 6 U	1 J	1 J	< 5 U	< 6 U	< 5 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Trichloroethene	ug/kg	3 J	4 J	3 J	2 J	3 J	< 6 U	2 J	3 J	1 J	2 J	3 J	< 6 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 6 U	< 5 U	< 6 U

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007	SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
	Sample ID	SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)	SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)
Chemical	**Units**												
Grain Size													
Sieve 3 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	NA	98.5	NA	NA	96.9	NA	NA	99.2	NA	NA	99.9	NA
Sieve, 3350 micron, % passing	% passing	NA	98.2	NA	NA	96.3	NA	NA	98.5	NA	NA	99.8	NA
Sieve, 2360 micron, % passing	% passing	NA	97.9	NA	NA	95.6	NA	NA	97.2	NA	NA	99.5	NA
Sieve, 1180 micron, % passing	% passing	NA	97.6	NA	NA	94.0	NA	NA	92.1	NA	NA	99.1	NA
Sieve, 600 micron, % passing	% passing	NA	94.9	NA	NA	89.7	NA	NA	88.1	NA	NA	96.5	NA
Sieve, 300 micron, % passing	% passing	NA	92.3	NA	NA	86.7	NA	NA	86.0	NA	NA	94.0	NA
Sieve, 150 micron, % passing	% passing	NA	88.6	NA	NA	82.7	NA	NA	80.8	NA	NA	89.5	NA
Sieve, 75 micron, % passing	% passing	NA	83.4	NA	NA	76.9	NA	NA	71.9	NA	NA	83.3	NA
Sieve, 64 micron, % passing	% passing	NA	81.0	NA	NA	73.0	NA	NA	68.0	NA	NA	80.0	NA
Sieve, 50 micron, % passing	% passing	NA	74.0	NA	NA	65.0	NA	NA	61.0	NA	NA	73.0	NA
Sieve, 20 micron, % passing	% passing	NA	54.0	NA	NA	47.0	NA	NA	38.0	NA	NA	51.0	NA
Sieve, 5 micron, % passing	% passing	NA	35.5	NA	NA	32.0	NA	NA	18.0	NA	NA	23.0	NA
Sieve, 2 micron, % passing	% passing	NA	28.5	NA	NA	27.0	NA	NA	14.0	NA	NA	17.0	NA
Sieve, 1 micron, % passing	% passing	NA	25.0	NA	NA	26.0	NA	NA	11.0	NA	NA	11.0	NA
Metals													
Arsenic	mg/kg	10.4	9.41	9.43	15.1	11.2	5.79	9.41	7.34	4.06	3.20	4.13	4.69
Barium	mg/kg	72.5	128	132	145	132	271	308	62.2	43.7	48.0	57.8	50.0
Cadmium	mg/kg	0.973	0.162 J	0.135 J	< 0.606 U	0.635	0.156 J	0.165 J	0.214 J	0.101 J	0.104 J	0.143 J	0.149 J
Chromium	mg/kg	30.6 J	27.5 J	30.7 J	45.8 J	31.6 J	31.3 J	34.0 J	19.1 J	11.6 J	13.7 J	12.6 J	13.6 J
Lead	mg/kg	39.2	24.2	89.6	37.1	162	11.0	13.5	10.5	8.26	9.52	10.6	12.3
Mercury	mg/kg	0.0188 J	0.0149 J	< 0.119 U	0.0201 J	0.0329 J	< 0.116 U	0.0138 J	0.0223 J	0.0187 J	0.0153 J	0.0178 J	0.0166 J
Nickel	mg/kg	11.8	17.7	19.5	20.5	17.1	30.6	64.6	9.82	7.37	8.80	8.23	9.64
Selenium	mg/kg	1.64 J	1.68 J	2.63	1.79 J	1.50 J	1.22 J	< 2.55 U	1.32 J	1.30 J	< 2.36 U	1.20 J	0.976 J
Silver	mg/kg	0.222 J	0.217 J	< 0.623 U	0.377 J	0.351 J	< 0.595 U	0.235 J	< 0.570 U	< 0.579 U	< 0.590 U	< 0.526 U	< 0.552 U
Vanadium	mg/kg	37.5	40.4	45.9	50.6	35.2	43.2	49.7	26.4	18.8	19.2	20.9	21.5
Other													
Black Carbon	%	NA	0.2 J	NA	NA	0.22 J	NA	NA	< 0.2 U	NA	NA	< 0.18 U	NA
Percent Moisture	%	18.3	16.7	20.6	21.4	19.5	20.0	22.4	13.1	15.4	16.1	5.9	12.9
Total Organic Carbon	%	NA	1.35	NA	NA	0.83	NA	NA	0.28	NA	NA	0.35	NA
Priority PAHs													
1-Methylnaphthalene	ug/kg	12.0	5.55	4.39	4.31	5.12	1.91	1.52	0.756	0.741	0.596	1.22	0.183 J
2-Methylnaphthalene	ug/kg	18.6	11.5	9.28	9.34	9.96	3.92	3.18	1.49	1.63	1.24 J	2.24	0.485 J
Acenaphthene	ug/kg	2.19	0.420	0.22	0.194	0.402	< 0.128 UB	0.209	0.180	0.244	0.331	< 0.1 U	< 0.1 UJ
Acenaphthylene	ug/kg	3.82	2.47	25.4	1.18	2.86	0.236	0.123	0.071	0.090	0.060	1.12	< 0 UJ
Anthracene	ug/kg	7.48	3.09	53.8	1.48	6.10	< 0.115 UB	< 0.115 UB	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	0.042 J
Benzo(a)Anthracene	ug/kg	22.9	15.2	66.4	1.53	5.91	0.115 J	0.090 J	< 0.2 U	< 0.2 U	< 0.2 U	3.33	0.087 J
Benzo(a)Pyrene	ug/kg	18.0	15.9	13.7	0.541	5.28	< 0.101 UB	< 0.101 UB	< 0.1 U	< 0.1 U	< 0.1 U	4.49	0.042 J
Benzo(b)Fluoranthene	ug/kg	39.6	37.6	153	5.84	20.3	< 0.240 UB	< 0.203 UB	< 0.2 U	< 0.2 U	< 0.2 U	10.4	0.292
Benzo(g,h,i)Perylene	ug/kg	13.2	27.5	23.8	1.38	6.39	< 0.10 UB	< 0.088 UB	< 0.1 U	< 0.1 U	< 0.1 U	11.1	0.087 J
Benzo(j)+(k)Fluoranthene	ug/kg	17.7	13.4	54.5	1.69	6.87	< 0.098 UB	< 0.098 UB	< 0.1 U	< 0.1 U	< 0.1 U	3.93	0.114
Chrysene/Triphenylene	ug/kg	36.2	78.8	99.4	5.08	13.8	0.208	0.110 J	< 0.1 U	< 0.1 U	< 0.1 U	26.8	0.355
Dibenz(a,h)Anthracene	ug/kg	4.46	6.62	13.4	0.540	2.21	< 0.1 U	< 0.064 UB	< 0.1 U	< 0.1 U	< 0.1 U	2.57	0.064 J
Fluoranthene	ug/kg	53.4	22.0	61.1	7.14	10.2	0.928	0.740	< 0.3 U	1.05	1.43	5.64	0.627
Fluorene	ug/kg	6.96	4.49	12.9	14.6	12.3	3.92	4.50	3.04	3.60	3.64	1.76	0.759 J
Indeno[1,2,3-cd]pyrene	ug/kg	12.3	11.2	33.2	1.49	6.12	< 0.386 UB	< 0.172 UB	< 0.1 U	< 0.1 U	< 0.1 U	4.13	0.116
Naphthalene	ug/kg	21.8	8.30	8.38	8.59	8.74	4.19	3.26	1.37	1.22	< 1.17 UB	1.56	0.648
Phenanthrene	ug/kg	58.6	21.6	27.5	32.4	30.2	7.56	7.24	7.37	8.95	10.5	10.8	2.78
Pyrene	ug/kg	39.0 J	45.5	45.6	2.65	8.91	< 0.322 UB	< 0.256 UB	< 0.1 U	< 0.138 UB	< 0.14 UB	14.3	< 0.14 UB
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	21.5	34.6	60.1	2.66	10.7	< 0.177 UB	< 0.177 UB	< 0.2 U	< 0.2 U	< 0.2 U	13.9	0.252
C1-Chrysenes	ug/kg	23.2	184	37.2	2.85	13.0	0.211 J	0.111 J	< 0.2 U	< 0.2 U	< 0.2 U	58.3	0.609
C1-Fluoranthenes/Pyrenes	ug/kg	27.6	111	21.9	1.83	8.59	0.325 J	0.167 J	< 0.5 U	< 0.5 U	< 0.5 U	40.2	< 0.5 U
C1-Fluorenes	ug/kg	4.72	13.0	4.68	4.92	4.85	1.44	1.60	1.05	1.33	1.27	11.8	0.354 J
C1-Phenanthrenes/Anthracenes	ug/kg	33.2	115	18.6	12.2	14.9	< 0.1 U	< 0.1 U	3.52	4.10	4.17	52.0	< 0.1 U
C2-Chrysenes	ug/kg	22.6	244	15.5	2.62	11.8	0.158 J	0.092 J	< 0.2 U	< 0.2 U	< 0.2 U	94.7	< 0.2 U
C2-Fluorenes	ug/kg	12.1	77.3	7.71	7.12	8.30	2.71	2.26	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ
C2-Naphthalenes	ug/kg	29.0	20.8	12.9	13.5	17.9	5.72	4.95	2.92	2.64	2.08	8.82	0.704 J
C2-Phenanthrenes/Anthracenes	ug/kg	25.2	306	13.23	7.84	14.3	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	139	< 0.3 U
C3-Chrysenes	ug/kg	17.2	138	5.51	1.99	9.12	< 0.2 U	0.071 J	< 0.2 U	< 0.2 U	< 0.2 U	63.6	< 0.2 U
C3-Fluorenes	ug/kg	20.8	277	11.2	5.45	12.2	1.31	1.52	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ
C3-Naphthalenes	ug/kg	21.5	53.5	7.59	8.95	12.3	6.31	5.80	2.42	2.15	1.64	28.6	< 0.7 UJ
C3-Phenanthrenes/Anthracenes	ug/kg	16.5	444	6.44	2.82	15.0	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	215	< 0.3 U
C4-Chrysenes	ug/kg	6.78	48.7	3.19	1.05	5.68	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	36.4	< 0.2 U
C4-Naphthalenes	ug/kg	15.0	70.7	6.53	7.34	10.3	4.34	4.31	< 0.7 U	< 0.7 U	< 0.7 U	58.3	< 0.7 UJ
C4-Phenanthrenes/Anthracenes	ug/kg	14.4	359	4.42	1.57	11.9	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	212	< 0.3 U
Perylene	ug/kg	4.30	7.14	2.45 J	< 1.27 UB	1.50 J	< 1.27 UB	< 1.27 UB	R	R	R	R	R
C1-Dibenzothiophenes	ug/kg	5.93	84.2	1.75	2.05	2.33	0.382	0.455	0.580	0.597	0.697	49.4	0.447
C1-Naphthalenes	ug/kg	20.1	11.0	8.80	8.79	9.70	3.76	3.02	1.21	1.28	0.991 J	2.21	0.430 J

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007	SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
	Sample ID	SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)	SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	6.46	368	2.36	2.13	4.71	0.570	0.594	0.582	0.622	0.639	152	0.933
C2-Fluoranthenes/Pyrenes	ug/kg	38.3	166	34.9	2.62	11.7	0.198 J	0.117 J	< 0.5 U	< 0.5 U	< 0.5 U	72.2	< 0.5 U
C3-Dibenzothiophenes	ug/kg	5.93	501	2.73	1.70	9.05	0.299	0.230 J	< 0.2 U	0.610	< 0.2 U	277	1.15
C3-Fluoranthenes/Pyrenes	ug/kg	21.5	199	21.0	1.86	10.3	0.138 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	66.9	< 0.5 U
C4-Dibenzothiophenes	ug/kg	5.64	365	2.10	1.24	10.7	0.137 J	0.162 J	< 0.2 U	< 0.2 U	< 0.2 U	235	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	31.2	237	17.4	1.57	8.81	0.114 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	101	< 0.5 U
Dibenzothiophene	ug/kg	4.79	7.70	1.34	1.36	1.92	0.554	0.713	0.528	0.587	0.640	6.42	0.246
VOCs													
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 10 U	< 11 U	< 12 U	< 12 U	< 12 U	< 12 U	< 11 U	< 10 U	< 9 U	< 10 U	< 10 U	< 11 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
2-Butanone (MEK)	ug/kg	< 10 U	< 11 U	< 12 U	< 12 U	< 12 U	12 J	5 J	< 10 U	< 9 U	< 10 U	7 J	< 11 U
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 10 U	< 11 U	< 12 U	< 12 U	< 12 U	< 12 U	< 11 U	< 10 U	< 9 U	< 10 U	< 10 U	< 11 U
Acetone	ug/kg	11 J	50	33	26	47	150	51	53	12 J	10 J	45	24
Allyl chloride	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Benzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	0.6 J	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Chloroform	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Styrene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Toluene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Trichloroethene	ug/kg	< 5 U	< 5 U	3 J	3 J	4 J	3 J	3 J	< 5 U	< 5 U	< 5 U	< 5 U	1 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-008	SO-DA-009	SO-DA-009	SO-DA-009	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-011	SO-DA-011	SO-DA-011	SO-DA-012
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/1/2013
	Sample ID	SO-DA-008(1.0-1.5)	SO-DA-009(0.0-0.5)	SO-DA-009(0.5-1.0)	SO-DA-009(1.0-1.5)	SO-DA-010(0.0-0.5)	SO-DA-DUP-02-080213FD	SO-DA-010(0.5-1.0)	SO-DA-010(1.0-1.5)	SO-DA-011(0.0-0.5)	SO-DA-011(0.5-1.0)	SO-DA-011(1.0-1.5)	SO-DA-012(0.0-0.5)
Chemical	**Units**												
Grain Size													
Sieve 3 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA	100
Sieve 1.5 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA	100
Sieve 0.75 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA	100
Sieve, 4750 micron, % passing	% passing	NA	99.1	NA	NA	100	NA	NA	NA	99.9	NA	NA	100
Sieve, 3350 micron, % passing	% passing	NA	97.9	NA	NA	99.9	NA	NA	NA	99.8	NA	NA	99.8
Sieve, 2360 micron, % passing	% passing	NA	95.9	NA	NA	99.7	NA	NA	NA	99.6	NA	NA	99.4
Sieve, 1180 micron, % passing	% passing	NA	94.5	NA	NA	99.5	NA	NA	NA	99.4	NA	NA	97.8
Sieve, 600 micron, % passing	% passing	NA	92.6	NA	NA	98.4	NA	NA	NA	99.2	NA	NA	92.8
Sieve, 300 micron, % passing	% passing	NA	91.0	NA	NA	96.8	NA	NA	NA	98.3	NA	NA	84.3
Sieve, 150 micron, % passing	% passing	NA	84.9	NA	NA	94.4	NA	NA	NA	94.0	NA	NA	75.3
Sieve, 75 micron, % passing	% passing	NA	76.3	NA	NA	90.2	NA	NA	NA	85.6	NA	NA	67.9
Sieve, 64 micron, % passing	% passing	NA	73.0	NA	NA	86.0	NA	NA	NA	82.0	NA	NA	64.0
Sieve, 50 micron, % passing	% passing	NA	67.0	NA	NA	79.0	NA	NA	NA	74.0	NA	NA	55.0
Sieve, 20 micron, % passing	% passing	NA	43.0	NA	NA	56.0	NA	NA	NA	50.5	NA	NA	36.0
Sieve, 5 micron, % passing	% passing	NA	19.0	NA	NA	24.0	NA	NA	NA	23.0	NA	NA	21.0
Sieve, 2 micron, % passing	% passing	NA	13.0	NA	NA	17.0	NA	NA	NA	14.0	NA	NA	18.0
Sieve, 1 micron, % passing	% passing	NA	9.5	NA	NA	11.0	NA	NA	NA	9.0	NA	NA	17.0
Metals													
Arsenic	mg/kg	5.48	3.53	4.66	3.50	4.09	5.92	2.93	3.60	3.81	3.80	4.92	8.14 J
Barium	mg/kg	54.3	73.2	60.5	47.5	94.7	92.2	33.3	35.8	84.4	97.8	99.7	79.7
Cadmium	mg/kg	0.188 J	0.0984 J	0.113 J	< 0.559 U	0.177 J	0.198 J	< 0.577 U	0.135 J	0.203 J	0.119 J	0.132 J	0.168 J
Chromium	mg/kg	18.9 J	12.9 J	14.4 J	17.0 J	13.6 J	21.4 J	11.3 J	11.6 J	13.0 J	14.2 J	13.7 J	22.7 J
Lead	mg/kg	13.3	12.6	14.3	16.6	12.5	11.5	5.51	5.77	18.6	14.7	11.5	30.7 J
Mercury	mg/kg	< 0.112 U	0.0288 J	0.0180 J	< 0.113 U	0.0299 J	0.0321 J	0.0157 J	0.0126 J	0.0299 J	0.0299 J	0.0326 J	0.0304 J
Nickel	mg/kg	10.6	8.58	7.57	8.69	10.9	8.94	7.22	7.50	9.43	10.4	10.7	9.21
Selenium	mg/kg	1.23 J	1.04 J	< 2.37 U	< 2.24 U	0.963 J	1.69 J	< 2.31 U	< 2.25 U	1.12 J	1.53 J	< 2.33 U	< 2.26 U
Silver	mg/kg	< 0.572 U	< 0.607 U	< 0.592 U	< 0.559 U	< 0.587 U	< 0.629 U	< 0.577 U	< 0.563 U	< 0.599 U	< 0.582 U	< 0.583 U	0.259 J
Vanadium	mg/kg	29.3	21.3	23.3	24.9	20.8	25.8	18.9	19.9	20.5	21.5	21.5	43.4 J
Other													
Black Carbon	%	NA	< 0.19 U	NA	NA	< 0.2 U	< 0.2 U	NA	NA	< 0.17 U	NA	NA	< 0.19 UJ
Percent Moisture	%	13.5	18.5	16.4	13.2	16.5	23.6	13.3	12.9	17.4	16.6	15.1	12.2
Total Organic Carbon	%	NA	0.83	NA	NA	3.25 J	1.82 J	NA	NA	0.890	NA	NA	0.700
Priority PAHs													
1-Methylnaphthalene	ug/kg	0.364 J	2.54	0.706	0.513 J	3.81	5.13	0.439 J	0.467 J	2.04	2.95	0.988	0.927
2-Methylnaphthalene	ug/kg	0.811 J	5.97	1.49	1.05 J	6.73 J	11.7 J	1.00 J	1.15 J	4.03	5.93	1.88	2.07
Acenaphthene	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	0.128	< 0.1 U	< 0.1 U	0.170	0.248	0.237	0.113	0.145	0.118
Acenaphthylene	ug/kg	< 0 U	2.43	0.262	0.106	1.21	1.75	0.356	0.139	0.698	0.582	0.095	2.16
Anthracene	ug/kg	< 0.1 U	4.69	0.36	0.108 J	1.54	2.39	0.567	0.192	0.958	0.589	0.035 J	3.73
Benzo(a)Anthracene	ug/kg	< 0.2 U	7.54	0.633	0.175 J	5.70	8.62	0.832	0.326	7.40 J	1.62	0.138 J	6.92
Benzo(a)Pyrene	ug/kg	< 0.1 U	9.89	0.899	0.149	5.81 J	10.1 J	0.847	0.213	6.55	1.10	0.041 J	4.64
Benzo(b)Fluoranthene	ug/kg	< 0.2 U	28.3	2.75	0.673	19.5	32.0	3.70	1.03	25.7 J	6.76	0.230	25.2
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	19.5	1.96	0.404	17.9	27.1	2.64	0.540	16.2 J	3.49	0.084 J	7.01
Benzo(j)+(k)Fluoranthene	ug/kg	< 0.1 U	11.4	1.07	0.256	6.17 J	12.1 J	1.40	0.384	9.38	2.17	0.070 J	11.8
Chrysene/Triphenylene	ug/kg	< 0.1 U	32.8	3.12	0.833	28.8	42.3	3.74	1.11	16.1 J	4.10	0.125	17.1
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	4.71	0.613	0.134	3.83	5.68	0.748	0.211	4.05	0.930	0.038 J	2.36
Fluoranthene	ug/kg	1.29	12.8	1.63	< 0.534 UB	12.8	19.9	2.50	1.88	20.8 J	6.66	0.745	15.9
Fluorene	ug/kg	2.69	3.06	0.83	0.992	2.55 J	6.01 J	0.862	2.32	3.82	7.02	2.10	2.75
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	9.87	1.21	0.305	8.78	13.1	< 0.1 U	0.451	14.2 J	3.38	0.110	6.88
Naphthalene	ug/kg	0.750	3.59	1.34	0.982	3.17 J	5.51 J	1.02	0.909	3.78	5.26	1.60	2.35
Phenanthrene	ug/kg	9.00	15.2	2.89	2.67	18.1	28.5	3.55	7.67	14.6 J	20.6	5.06	12.7
Pyrene	ug/kg	< 0.333 UB	22.6	2.03	< 0.494 UB	19.4	30.0	2.09	0.871	13.4 J	< 3.15 UB	0.159	10.3
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	< 0.2 U	23.5	2.55	0.664	19.2	29.0	3.40	0.979	14.9 J	3.67	0.134 J	15.3
C1-Chrysenes	ug/kg	< 0.2 U	57.7	7.13	1.97	42.8 J	78.6 J	6.85	1.53	7.53	1.68	< 0.2 U	13.1
C1-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	58.5	6.11	1.20	36.5 J	69.2 J	4.84	1.03	7.20	1.86	0.568	10.4
C1-Fluorenes	ug/kg	< 0.4 U	10.7	0.93	0.533	9.54	11.2	0.781	0.990	1.58	2.60	0.877	1.61
C1-Phenanthrenes/Anthracenes	ug/kg	5.76	41.4	6.25	< 0.1 U	49.7	48.0	6.37	5.66	8.71	9.13	< 0.1 U	6.78
C2-Chrysenes	ug/kg	< 0.2 U	91.6	9.26	3.21	65.3 J	116 J	9.84	2.63	6.37	1.73	< 0.2 U	13.2
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	40.4	49.9	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	1.50	14.1	3.04	2.04	25.2	23.4	1.42	1.29	6.86	10.6	3.19	2.89
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	131	11.0	< 0.3 U	107	145	15.3	< 0.3 U	8.97	5.99	< 0.3 U	10.3
C3-Chrysenes	ug/kg	< 0.2 U	64.4	7.75	2.21	55.5	86.6	7.17	1.63	5.66	0.981	< 0.2 U	10.3
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	75.2	124	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	1.24	27.7	3.60	2.06	57.6	36.5	0.99	1.06	4.26	6.84	2.19	2.23
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	249	18.9	< 0.3 U	154 J	287 J	21.8	< 0.3 U	5.92	< 0.3 U	< 0.3 U	11.9
C4-Chrysenes	ug/kg	< 0.2 U	40.1	3.53	< 0.2 U	31.7	49.6	< 0.2 U	< 0.2 U	2.66	< 0.2 U	< 0.2 U	6.29
C4-Naphthalenes	ug/kg	< 0.7 U	77.1	< 0.7 U	< 0.7 U	68.5	60.6	3.93	< 0.7 U	4.55	6.64	2.26	4.18
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	223	19.7	< 0.3 U	116 J	270 J	20.1	< 0.3 U	7.00	< 0.3 U	< 0.3 U	10.6
Perylene	ug/kg	R	3.09 J	R	R	1.89 J	2.44 J	R	R	1.42 J	0.141 J	R	0.951 J
C1-Dibenzothiophenes	ug/kg	0.581	38.3	1.99	1.20	44.8	40.4	1.89	0.718	1.33	1.77	0.408	1.57
C1-Naphthalenes	ug/kg	0.754 J	5.47	1.41	1.00 J	6.75	10.8	0.93 J	1.04	3.89	5.69	1.83	1.84

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-008	SO-DA-009	SO-DA-009	SO-DA-009	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-011	SO-DA-011	SO-DA-011	SO-DA-012
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/1/2013
	Sample ID	SO-DA-008(1.0-1.5)	SO-DA-009(0.0-0.5)	SO-DA-009(0.5-1.0)	SO-DA-009(1.0-1.5)	SO-DA-010(0.0-0.5)	SO-DA-DUP-02-080213FD	SO-DA-010(0.5-1.0)	SO-DA-010(1.0-1.5)	SO-DA-011(0.0-0.5)	SO-DA-011(0.5-1.0)	SO-DA-011(1.0-1.5)	SO-DA-012(0.0-0.5)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	< 0.2 U	141	5.93	2.61	104	141	9.66	1.41	2.35	1.98	0.444	5.22
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	100	10.5	2.43	60.8 J	109 J	7.62	2.02	10.0	2.93	< 0.5 U	16.9
C3-Dibenzothiophenes	ug/kg	< 0.2 U	268	14.7	4.91	153 J	278 J	21.5	2.03	3.77	1.18	0.184 J	11.1
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	86.0	8.18	1.91	44.1 J	96.6 J	6.00	1.33	5.01	1.12	< 0.5 U	8.81
C4-Dibenzothiophenes	ug/kg	< 0.2 U	194	12.2	< 0.2 U	129	273	< 0.2 U	< 0.2 U	4.42	< 0.2 U	< 0.2 U	9.29
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	90.2	12.2	< 0.5 U	61.5 J	144 J	11.5	< 0.5 U	7.89	< 0.5 U	< 0.5 U	16.2
Dibenzothiophene	ug/kg	0.609	6.66	0.71	0.438	9.22	8.64	0.48	0.615	1.41	2.25	0.559	1.14
VOCs													
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 15 U	< 10 U	< 11 U	< 13 U	< 10 U	< 10 U	< 11 U
1,1-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
2-Butanone (MEK)	ug/kg	< 10 U	9 J	< 11 U	< 11 U	20	42	< 10 U	< 11 U	35	11	< 10 U	8 J
2-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
2-Phenylbutane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 15 U	< 10 U	< 11 U	< 13 U	< 10 U	< 10 U	< 11 U
Acetone	ug/kg	9 J	79	40	9 J	130	290	23	23	230	99	39	110
Allyl chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Benzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Chloroform	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Styrene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Toluene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	1 J	2 J	< 5 U	< 6 U	2 J	< 5 U	< 5 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Trichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	2 J	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 6 U	< 5 U	< 6 U	< 6 U	< 8 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U	< 6 U

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013	SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
	Sample ID	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)	SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
Chemical	**Units**												
Grain Size													
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	99.9	NA	NA	100	NA	NA	NA	99.9	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	99.8	NA	NA	99.9	NA	NA	NA	99.7	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.7	NA	NA	99.9	NA	NA	NA	99.5	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	99.6	NA	NA	99.7	NA	NA	NA	98.9	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	99.5	NA	NA	99.4	NA	NA	NA	96.1	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	98.8	NA	NA	98.9	NA	NA	NA	92.8	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	89.4	NA	NA	92.8	NA	NA	NA	84.2	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	72.8	NA	NA	79.4	NA	NA	NA	75.2	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	67.0	NA	NA	75.0	NA	NA	NA	70.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	54.0	NA	NA	67.0	NA	NA	NA	60.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	34.0	NA	NA	46.0	NA	NA	NA	33.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	15.0	NA	NA	25.0	NA	NA	NA	18.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	11.0	NA	NA	16.0	NA	NA	NA	15.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	10.0	NA	NA	11.0	NA	NA	NA	12.0	NA	NA
Metals													
Arsenic	mg/kg	5.25 J	4.64 J	2.52 J	2.30 J	2.52 J	4.55 J	3.55 J	3.05 J	1.92 J	7.71 J	13.7 J	6.92 J
Barium	mg/kg	85.4	91.2	41.1	26.7	27.4	73.3	69.2	41.2	31.8	111	130	115
Cadmium	mg/kg	0.158 J	0.169 J	0.0904 J	0.112 J	< 0.576 U	0.147 J	0.186 J	< 0.593 U	< 0.581 U	0.186 J	< 0.593 U	0.136 J
Chromium	mg/kg	17.2 J	20.4 J	10.1 J	10.3 J	9.63 J	13.1 J	12.5 J	10.7 J	9.63 J	23.7 J	38.0 J	23.0 J
Lead	mg/kg	27.3 J	23.2 J	9.44 J	9.13 J	8.15 J	16.7 J	14.9 J	8.97 J	6.95 J	31.2 J	38.9 J	26.1 J
Mercury	mg/kg	0.0217 J	0.0323 J	0.0204 J	0.0188 J	0.0170 J	0.0393 J	0.0376 J	0.0323 J	0.0265 J	0.0349 J	0.0261 J	0.0329 J
Nickel	mg/kg	8.96	12.0	4.92	3.74	4.05	9.02	8.50	6.36	5.42	9.70	10.6	9.26
Selenium	mg/kg	< 2.15 U	< 2.31 U	< 2.29 U	< 2.28 U	< 2.30 U	< 2.51 U	< 2.37 U	< 2.37 U	< 2.33 U	< 2.40 U	< 2.37 U	< 2.38 U
Silver	mg/kg	< 0.537 U	< 0.578 U	< 0.572 U	< 0.569 U	< 0.576 U	< 0.627 U	< 0.592 U	< 0.593 U	< 0.581 U	0.211 J	0.591 J	0.213 J
Vanadium	mg/kg	33.4 J	34.1 J	15.0 J	14.7 J	13.5 J	20.8 J	19.8 J	17.0 J	14.3 J	39.6 J	76.4 J	39.0 J
Other													
Black Carbon	%	NA	NA	< 0.18 UJ	NA	NA	< 0.17 UJ	< 0.2 UJ	NA	NA	< 0.2 UJ	NA	NA
Percent Moisture	%	10.4	16.0	14.3	14.7	14.9	21.0	16.4	16.5	16.5	17.5	18.2	17.7
Total Organic Carbon	%	NA	NA	0.320	NA	NA	1.22	1.11	NA	NA	1.86	NA	NA
Priority PAHs													
1-Methylnaphthalene	ug/kg	1.04	2.04	0.548	0.221 J	0.500 J	1.06	1.13	0.691	0.310 J	2.21	1.10	0.800
2-Methylnaphthalene	ug/kg	2.33	4.03	1.16 J	0.451 J	1.05 J	2.43	2.70	1.56	0.653 J	4.79	2.59	1.72
Acenaphthene	ug/kg	0.179	0.420	0.054 J	0.069 J	0.049 J	0.318	0.255	0.201	0.039 J	0.482	0.340	0.118
Acenaphthylene	ug/kg	0.727	1.29	0.209	0.052	0.099	1.90	2.70	0.540	0.091	1.56	0.530	0.288
Anthracene	ug/kg	0.876	1.71	0.228	0.047 J	< 0.1 U	2.37	3.76	0.668	0.075 J	2.42	0.590	0.349
Benzo(a)Anthracene	ug/kg	1.57	2.61	1.14	0.149 J	0.117 J	6.34 J	12.3 J	1.68	0.263	6.73	1.54	0.991
Benzo(a)Pyrene	ug/kg	0.676	1.57	1.10	0.062 J	< 0.1 U	3.65 J	9.04 J	0.833	< 0.1 U	3.28	1.56	0.392
Benzo(b)Fluoranthene	ug/kg	6.16	9.28	3.73	0.280	0.203 J	25.8 J	45.6 J	5.62	0.687	31.5	8.00	3.92
Benzo(g,h,i)Perylene	ug/kg	1.68	2.12	1.62	0.103	0.050 J	8.13 J	16.6 J	1.85	0.082 J	10.6	3.57	1.23
Benzo(j)+(k)Fluoranthene	ug/kg	2.18	3.15	1.40	0.083 J	0.061 J	9.78	16.2	1.85	0.240	12.2	2.56	0.909
Chrysene/Triphenylene	ug/kg	4.63	8.30	3.16	0.154	0.125	15.8	24.4	3.92	0.476	17.2 J	6.08	3.35
Dibenz(a,h)Anthracene	ug/kg	0.580	0.740	0.399	0.030 J	0.021 J	2.70 J	4.80 J	0.605	0.042 J	3.59	1.08	0.433
Fluoranthene	ug/kg	6.39	12.3	3.59	0.462	0.903	17.9	24.1	6.19	0.717	17.7	6.03	3.15
Fluorene	ug/kg	3.62	5.67	1.74	0.862	2.72	3.19 J	1.63 J	5.78	1.29	3.79	4.91	2.18
Indeno[1,2,3-cd]pyrene	ug/kg	1.76	2.22	1.26	0.095	0.063	8.62 J	15.6 J	1.72	0.160	8.80	2.42	1.02
Naphthalene	ug/kg	2.47	4.88	1.19	0.668	1.17	2.85	2.85	1.63	0.949	4.31	2.74	2.30
Phenanthrene	ug/kg	12.5	19.1	6.00	2.26	6.90	14.8	11.2	19.8	3.27	18.9 J	17.1	6.92
Pyrene	ug/kg	3.22	7.75	2.73	0.331	0.367	12.4 J	21.2 J	2.78	0.223	12.5	3.00	1.80
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	3.75	5.07	2.67	0.202	0.147 J	15.36 J	26.2 J	3.68	0.364	22.5 J	6.75	2.52
C1-Chrysenes	ug/kg	2.85	6.25	3.47	< 0.2 U	< 0.2 U	8.60	14.4	3.80	< 0.2 U	22.5	12.5	6.59
C1-Fluoranthenes/Pyrenes	ug/kg	2.10	5.96	2.73	< 0.5 U	< 0.5 U	7.91	13.2	2.61	< 0.5 U	13.3	6.44	2.62
C1-Fluorenes	ug/kg	1.07	2.52	0.874	0.258 J	0.674	1.69	1.42	2.31	0.408	2.89	1.82	0.940
C1-Phenanthrenes/Anthracenes	ug/kg	5.26	8.45	4.66	< 0.1 U	< 0.1 U	7.31	7.80	6.44	< 0.1 U	9.12	6.34	4.85
C2-Chrysenes	ug/kg	2.77	4.94	4.29	< 0.2 U	< 0.2 U	8.34	11.6	4.38	< 0.2 U	28.6	15.7	6.16
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	3.26	6.24	1.95	0.965	1.67	4.03	3.62	2.92	0.883	8.43	4.07	2.51
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	7.23	8.28	< 0.3 U	< 0.3 U	7.38	9.67	6.67	< 0.3 U	16.5	10.1	7.81
C3-Chrysenes	ug/kg	1.95	3.10	3.47	< 0.2 U	< 0.2 U	7.71	9.96	4.95	< 0.2 U	27.4	12.2	5.28
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	2.56	8.94	2.41	1.74	2.85	3.28	2.55	2.54	1.093	7.76	2.57	2.02
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	2.97	6.58	< 0.3 U	< 0.3 U	7.58	11.5	6.69	< 0.3 U	29.1	19.0	7.05
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	14.0	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	1.59	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	3.60	5.50	< 0.3 U	< 0.3 U	7.18	10.0	4.95	< 0.3 U	37.5	19.7	7.98
Perylene	ug/kg	0.228 J	2.76 J	0.280 J	0.028 J	R	0.64 J	1.92 J	0.239 J	0.043 J	1.27 J	0.572 J	0.322 J
C1-Dibenzothiophenes	ug/kg	1.36	3.41	1.50	0.150	0.187	1.47	1.66	0.725	0.178	4.33	3.15	1.23
C1-Naphthalenes	ug/kg	2.07	3.72	1.05	0.413 J	0.953 J	2.15	2.36	1.39	0.592 J	4.31	2.27	1.55

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013	SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
	Sample ID	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)	SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	1.62	3.68	4.44	0.188 J	0.236	1.88	2.63	1.03	0.252	10.59	< 0.2 U	2.79
C2-Fluoranthenes/Pyrenes	ug/kg	3.98	9.15	4.32	< 0.5 U	< 0.5 U	13.0	17.8	5.39	< 0.5 U	26.6	12.4	< 0.5 U
C3-Dibenzothiophenes	ug/kg	1.33	3.77	7.38	0.270	< 0.2 U	3.20 J	7.49 J	2.56	< 0.2 U	22.0	< 0.2 U	6.09
C3-Fluoranthenes/Pyrenes	ug/kg	1.84	3.98	2.91	< 0.5 U	< 0.5 U	5.05 J	9.47 J	2.77	< 0.5 U	15.2	9.05	< 0.5 U
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	5.69	< 0.2 U	< 0.2 U	< 0.2 UJ	5.53 J	< 0.2 U	< 0.2 U	21.9	< 0.2 U	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	5.12	4.04	< 0.5 U	< 0.5 U	11.0	12.8	6.43	< 0.5 U	36.4	17.5	< 0.5 U
Dibenzothiophene	ug/kg	1.27	2.11	0.681	0.101 J	0.211	1.26	1.38	1.10	0.240	1.87	1.16	0.857
VOCs													
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 9 U	< 9 U	< 9 U	< 10 U	< 10 U	< 13 U	< 12 U	< 10 U	< 9 U	< 620 U	< 13 U	< 11 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
2-Butanone (MEK)	ug/kg	4 J	< 9 U	< 9 U	< 10 U	< 10 U	10 J	11 J	4 J	< 9 U	< 620 U	8 J	< 11 U
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 9 U	< 9 U	< 9 U	< 10 U	< 10 U	< 13 U	< 12 U	< 10 U	< 9 U	< 620 U	< 13 U	< 11 U
Acetone	ug/kg	67	12 J	31	< 20 U	< 20 U	220	250	85	30	< 1200 U	140	66
Allyl chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Benzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	34 J	< 6 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chloroform	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	620	3 J	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	120 J	42	< 6 U
Styrene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Toluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	5 J	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Trichloroethene	ug/kg	< 5 U	< 5 U	1 J	1 J	1 J	< 6 U	2 J	1 J	2 J	< 310 U	< 6 U	< 6 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 4 U	< 310 U	< 6 U	< 6 U

Appendix F - Analytical Data Tables
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:
% = percent
< = less than the limit of quantitation
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
ug/kg = micrograms per kilogram
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
VOCs = volatile organic compounds

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-016	SO-DA-016	SO-DA-016	SO-DA-017	SO-DA-017	SO-DA-017	SO-DA-018	SO-DA-018	SO-DA-018	SO-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
	Sample ID	SO-DA-016(0.0-0.5)	SO-DA-016(0.5-1.0)	SO-DA-016(1.0-1.5)	SO-DA-017(0.0-0.5)	SO-DA-017(0.5-1.0)	SO-DA-017(1.0-1.5)	SO-DA-018(0.0-0.5)	SO-DA-DUP-03-080613FD	SO-DA-018(0.5-1.0)	SO-DA-018(1.0-1.5)
Chemical	**Units**										
Grain Size											
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA
Sieve 0.75 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA
Sieve, 4750 micron, % passing	% passing	99.9	NA	NA	99.9	NA	NA	98.9	NA	NA	NA
Sieve, 3350 micron, % passing	% passing	99.6	NA	NA	99.7	NA	NA	98.6	NA	NA	NA
Sieve, 2360 micron, % passing	% passing	99.3	NA	NA	99.5	NA	NA	98.3	NA	NA	NA
Sieve, 1180 micron, % passing	% passing	98.9	NA	NA	99.1	NA	NA	98.1	NA	NA	NA
Sieve, 600 micron, % passing	% passing	98.2	NA	NA	98.5	NA	NA	97.1	NA	NA	NA
Sieve, 300 micron, % passing	% passing	97.0	NA	NA	97.9	NA	NA	95.8	NA	NA	NA
Sieve, 150 micron, % passing	% passing	91.2	NA	NA	95.5	NA	NA	93.8	NA	NA	NA
Sieve, 75 micron, % passing	% passing	78.9	NA	NA	90.2	NA	NA	89.6	NA	NA	NA
Sieve, 64 micron, % passing	% passing	73.0	NA	NA	85.0	NA	NA	84.0	NA	NA	NA
Sieve, 50 micron, % passing	% passing	59.0	NA	NA	77.0	NA	NA	75.0	NA	NA	NA
Sieve, 20 micron, % passing	% passing	37.0	NA	NA	51.0	NA	NA	52.0	NA	NA	NA
Sieve, 5 micron, % passing	% passing	18.0	NA	NA	23.5	NA	NA	22.0	NA	NA	NA
Sieve, 2 micron, % passing	% passing	13.5	NA	NA	17.0	NA	NA	18.0	NA	NA	NA
Sieve, 1 micron, % passing	% passing	12.5	NA	NA	13.5	NA	NA	17.0	NA	NA	NA
Metals											
Arsenic	mg/kg	4.03	3.57	3.58	4.47	3.27	2.71	5.66	6.51	3.01	2.98
Barium	mg/kg	101	106	78.8	82.9	102	82.8	88.2	95.4	63.6	86.2
Cadmium	mg/kg	0.303 J	0.254 J	0.185 J	0.221 J	0.173 J	0.148 J	0.260 J	0.222 J	0.143 J	0.183 J
Chromium	mg/kg	13.8 J	13.4 J	13.4 J	14.9 J	13.2 J	12.4 J	16.3 J	17.4 J	11.5 J	12.7 J
Lead	mg/kg	19.7 J	16.5 J	11.7 J	22.2 J	12.5 J	11.5 J	18.3 J	25.8 J	11.8 J	11.3 J
Mercury	mg/kg	0.0372 J	0.0249 J	0.0141 J	0.0326 J	0.0216 J	0.0268 J	0.0235 J	0.0198 J	0.0375 J	0.0265 J
Nickel	mg/kg	10.3	11.1	11.0	10.5	12.0	9.70	11.0	11.7	6.83	8.50
Selenium	mg/kg	0.983 J	1.19 J	< 2.45 U	< 2.64 U	< 2.47 U	< 2.50 U	< 2.75 U	1.00 J	< 2.44 U	1.01 J
Silver	mg/kg	< 0.593 U	< 0.616 U	< 0.613 U	< 0.661 U	< 0.618 U	< 0.625 U	< 0.689 U	< 0.623 U	< 0.611 U	< 0.614 U
Vanadium	mg/kg	21.9	21.4	22.2	24.2	22.6	22.0	25.6	27.9	20.3	20.1
Other											
Black Carbon	%	< 0.19 U	NA	NA	< 0.19 U	NA	NA	< 0.19 U	< 0.19 U	NA	NA
Percent Moisture	%	18.1	19.6	20.0	24.3	19.9	20.8	27.4	20.6	19.8	21.7
Total Organic Carbon	%	2.51	NA	NA	1.71	NA	NA	2.01	1.95	NA	NA
Priority PAHs											
1-Methylnaphthalene	ug/kg	4.15	1.78	1.12	3.71	2.01	1.02	3.33	3.43	0.763	1.58
2-Methylnaphthalene	ug/kg	9.66	3.70	2.29	8.75	4.42	2.41	7.73	7.77	1.76	3.54
Acenaphthene	ug/kg	1.24	0.170	0.106	0.758	0.256	0.231	0.554 J	< 0.1 UJ	0.552	< 0.1 U
Acenaphthylene	ug/kg	4.43	0.620	0.325	1.53	0.293	0.611	0.699 J	3.57 J	0.246	< 0 U
Anthracene	ug/kg	7.27	0.451	0.287	1.48	< 0.1 U	< 0.1 U	1.01 J	4.25 J	< 0.1 U	< 0.1 U
Benzo(a)Anthracene	ug/kg	13.7	1.09	0.676	11.5	0.347	0.441	2.77 J	8.90 J	0.280	0.163 J
Benzo(a)Pyrene	ug/kg	18.8	0.929	0.549	5.84 J	0.163	0.331	3.46 J	14.0 J	0.288	0.097 J
Benzo(b)Fluoranthene	ug/kg	71.5	4.09	2.62	29.1	1.23	2.38	10.9 J	33.3 J	1.32	0.728
Benzo(g,h,i)Perylene	ug/kg	28.7	2.01	1.17	13.4 J	0.346	1.24	7.30 J	27.6 J	0.780	0.337
Benzo(j)+(k)Fluoranthene	ug/kg	34.3	1.28	0.819	5.4	0.323	0.718	4.69 J	14.5 J	0.417	0.208
Chrysene/Triphenylene	ug/kg	37.3	3.07	1.74	34.6 J	1.13	2.68	11.7 J	65.4 J	2.20	0.918
Dibenz(a,h)Anthracene	ug/kg	8.21	0.528	0.360	3.90	0.176	0.421	1.97 J	6.52 J	0.258	0.167
Fluoranthene	ug/kg	50.6	3.57	1.94	14.9 J	3.73	3.12	10.8	16.8	3.78	2.00
Fluorene	ug/kg	9.64	2.87	1.66	6.39	8.51	4.49	8.12	6.22	5.67	5.25
Indeno[1,2,3-cd]pyrene	ug/kg	27.1	1.33	0.884	7.43	0.444	0.840	3.80 J	11.5 J	0.396	0.327
Naphthalene	ug/kg	10.4	5.52	2.94	6.01	3.60	1.71	6.61	5.39	1.36	3.15
Phenanthrene	ug/kg	34.0	8.96	4.78	20.5 J	24.6	17.7	24.7	29.9	23.3	14.3
Pyrene	ug/kg	38.3	2.51	1.35	18.1	0.635	1.00	9.74 J	52.0 J	0.914	< 0.404 UB
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	42.9	2.93	1.92	21.1 J	0.816	2.65	12.7 J	35.3 J	1.41	0.736
C1-Chrysenes	ug/kg	< 0.2 U	3.55	2.20	82.0	1.28	5.25	27.9 J	152 J	7.74	2.19
C1-Fluoranthenes/Pyrenes	ug/kg	20.5	2.91	1.67	57.5	1.05	3.40	20.2 J	132 J	3.11	0.966
C1-Fluorenes	ug/kg	5.39	1.11	0.873	< 0.4 U	3.25	< 0.4 U	5.32 J	20.3 J	< 0.4 U	2.18
C1-Phenanthrenes/Anthracenes	ug/kg	17.2	5.38	3.57	21.1	7.27	6.06	12.2 J	50.5 J	8.46	7.03
C2-Chrysenes	ug/kg	< 0.2 U	4.16	2.45	120	1.27	7.63	46.1 J	206 J	11.2	3.58
C2-Fluorenes	ug/kg	14.9	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ	< 0.4 UJ	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	12.4	4.31	3.00	14.5	7.87	4.83	11.1	16.2	< 0.7 U	< 0.7 U
C2-Phenanthrenes/Anthracenes	ug/kg	20.6	< 0.3 U	< 0.3 U	114	5.80	8.15	29.6 J	261 J	9.59	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	3.98	1.89	75.0	1.05	4.99	33.2 J	167 J	8.06	2.44
C3-Fluorenes	ug/kg	15.0	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ	< 0.4 UJ	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	13.8	4.16	2.31	16.4	3.58	3.68	10.3 J	29.0 J	< 0.7 U	< 0.7 U
C3-Phenanthrenes/Anthracenes	ug/kg	21.3	< 0.3 U	< 0.3 U	271	2.66	13.4	77.0 J	604 J	15.2	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	52.2	< 0.2 U	< 0.2 U	18.8 J	78.3 J	4.25	< 0.2 U
C4-Naphthalenes	ug/kg	13.7	3.47	< 0.7 U	48.1	< 0.7 U	< 0.7 U	31.0 J	103 J	< 0.7 U	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	16.4	< 0.3 U	< 0.3 U	292	< 0.3 U	11.5	83.4 J	612 J	14.4	< 0.3 U
Perylene	ug/kg	9.10 J	0.415 J	0.236 J	1.55 J	0.069 J	R	R	4.98 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-016	SO-DA-016	SO-DA-016	SO-DA-017	SO-DA-017	SO-DA-017	SO-DA-018	SO-DA-018	SO-DA-018	SO-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
	Sample ID	SO-DA-016(0.0-0.5)	SO-DA-016(0.5-1.0)	SO-DA-016(1.0-1.5)	SO-DA-017(0.0-0.5)	SO-DA-017(0.5-1.0)	SO-DA-017(1.0-1.5)	SO-DA-018(0.0-0.5)	SO-DA-DUP-03-080613FD	SO-DA-018(0.5-1.0)	SO-DA-018(1.0-1.5)
Chemical	**Units**										
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	5.67	1.42	0.931	15.1	2.77	2.46	5.72 J	46.3 J	2.05	1.32
C1-Naphthalenes	ug/kg	7.46	2.96	1.84	7.95	3.47	1.86	5.98	7.19	1.61	3.29
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	9.89	1.88	1.08	100	< 0.2 U	4.65	20.5 J	222 J	4.51	< 0.2 U
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	5.55	2.45	84.4	1.31	6.09	28.1 J	215 J	6.73	1.88
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	17.9	3.15	0.803	280	< 0.2 U	11.4	86.1 J	693	13.2	< 0.2 U
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	3.88	< 0.5 U	75.7	< 0.5 U	4.56	24.1 J	202 J	5.66	1.48
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	13.3	1.59	1.04	300	< 0.2 U	9.41	92.7 J	702 J	21.7	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	4.48	< 0.5 U	129	< 0.5 U	4.58	48.8 J	207 J	9.58	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	4.48	1.08	0.696	4.97	2.39	1.64	3.04 J	9.68 J	1.74	1.43
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 13 U	< 11 U	< 11 U	< 13 U	< 10 U	< 10 U	< 12 U	< 11 U	< 10 U	< 10 U
1,1-Dichloroethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1-Dichloroethene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1-Dichloropropene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dichloroethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dichloropropane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
1,3-Dichloropropane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-016	SO-DA-016	SO-DA-016	SO-DA-017	SO-DA-017	SO-DA-017	SO-DA-018	SO-DA-018	SO-DA-018	SO-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
	Sample ID	SO-DA-016(0.0-0.5)	SO-DA-016(0.5-1.0)	SO-DA-016(1.0-1.5)	SO-DA-017(0.0-0.5)	SO-DA-017(0.5-1.0)	SO-DA-017(1.0-1.5)	SO-DA-018(0.0-0.5)	SO-DA-DUP-03-080613FD	SO-DA-018(0.5-1.0)	SO-DA-018(1.0-1.5)
Chemical	**Units**										
1,4-Dichlorobenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
2,2-Dichloropropane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
2-Butanone (MEK)	ug/kg	9 J	< 11 U	< 11 U	22	10 J	6 J	15	14	< 10 U	4 J
2-Chlorotoluene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
2-Phenylbutane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
4-Chlorotoluene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 13 U	< 11 U	< 11 U	< 13 U	< 10 U	< 10 U	< 12 U	< 11 U	< 10 U	< 10 U
Acetone	ug/kg	110	39	39	210	97	63	130	140	42	53
Allyl chloride	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Benzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromobenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromochloromethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromodichloromethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromomethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Carbon Tetrachloride	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Chlorobenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Chloroethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Chloroform	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Chloromethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Dibromochloromethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Dibromomethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Dichlorofluoromethane	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Ethylbenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Isopropylbenzene (Cumene)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
n-Butylbenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
n-Propylbenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Styrene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Tert-Butylbenzene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Tetrachloroethene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Tetrahydrofuran	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Toluene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Trichloroethene	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	1 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Vinyl Chloride	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U
Xylene (Total)	ug/kg	< 7 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 6 U	< 6 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-020	SO-DA-020	SO-DA-020	SO-DA-021	SO-DA-021
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-019(0.0-0.5)	SO-DA-019(0.5-1.0)	SO-DA-019(1.0-1.5)	SO-DA-019(1.5-2.0)	SO-DA-019(2.0-3.0)	SO-DA-019(3.0-4.0)	SO-DA-020(0.0-0.5)	SO-DA-020(0.5-1.0)	SO-DA-020(1.0-1.5)	SO-DA-021(0.0-0.5)	SO-DA-021(0.5-1.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	NA	NA	NA	NA	100	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	NA	NA	NA	100	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	100	NA	NA	NA	NA	NA	100	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	99.8	NA	NA	NA	NA	NA	100	NA	NA	100	NA
Sieve, 3350 micron, % passing	% passing	99.5	NA	NA	NA	NA	NA	100	NA	NA	100	NA
Sieve, 2360 micron, % passing	% passing	98.7	NA	NA	NA	NA	NA	99.8	NA	NA	100	NA
Sieve, 1180 micron, % passing	% passing	98.5	NA	NA	NA	NA	NA	99.6	NA	NA	99.8	NA
Sieve, 600 micron, % passing	% passing	98.2	NA	NA	NA	NA	NA	99.4	NA	NA	99.2	NA
Sieve, 300 micron, % passing	% passing	97.6	NA	NA	NA	NA	NA	98.9	NA	NA	98.3	NA
Sieve, 150 micron, % passing	% passing	96.1	NA	NA	NA	NA	NA	98.0	NA	NA	95.7	NA
Sieve, 75 micron, % passing	% passing	91.7	NA	NA	NA	NA	NA	96.8	NA	NA	89.1	NA
Sieve, 64 micron, % passing	% passing	86.0	NA	NA	NA	NA	NA	94.0	NA	NA	76.0	NA
Sieve, 50 micron, % passing	% passing	73.0	NA	NA	NA	NA	NA	89.0	NA	NA	48.0	NA
Sieve, 20 micron, % passing	% passing	51.0	NA	NA	NA	NA	NA	69.0	NA	NA	10.5	NA
Sieve, 5 micron, % passing	% passing	22.0	NA	NA	NA	NA	NA	50.0	NA	NA	2.0	NA
Sieve, 2 micron, % passing	% passing	13.0	NA	NA	NA	NA	NA	37.0	NA	NA	0.50	NA
Sieve, 1 micron, % passing	% passing	7.0	NA	NA	NA	NA	NA	24.0	NA	NA	< 0.50 U	NA
Metals												
Arsenic	mg/kg	3.87	3.70	2.75	3.91	3.04	5.65	6.82	5.55	6.88	5.23	3.36
Barium	mg/kg	67.9	91.7	55.8	50.6	58.3	112	117	80.9	43.5	62.1	65.8
Cadmium	mg/kg	< 0.576 U	< 0.570 U	< 0.571 U	< 0.582 U	< 0.561 U	< 0.816 U	< 0.625 U	< 0.590 U	< 0.575 U	< 0.596 U	< 0.586 U
Chromium	mg/kg	10.7	13.2	12.1	15.2	12.8	21.5	17.7	12.8	18.3	9.45	12.4
Lead	mg/kg	15.9	13.1	10.4	11.4	10.5	22.5	24.5	13.1	14.5	15.3	11.7
Mercury	mg/kg	0.0287 J	0.0251 J	0.0112 J	< 0.109 U	< 0.109 U	< 0.163 U	0.0502 J	0.0238 J	< 0.112 U	0.0204 J	0.0229 J
Nickel	mg/kg	7.27	8.69	7.63	7.79	7.64	14.0	12.8	8.04	7.55	6.60	8.51
Selenium	mg/kg	< 2.30 U	1.19 J	1.05 J	1.21 J	< 2.24 U	1.70 J	< 2.50 U	< 2.36 U	< 2.30 U	< 2.38 U	1.16 J
Silver	mg/kg	< 0.576 U	< 0.570 U	< 0.571 U	< 0.582 U	< 0.561 U	< 0.816 U	< 0.625 U	< 0.590 U	< 0.575 U	< 0.596 U	< 0.586 U
Vanadium	mg/kg	18.9	23.8	22.2	25.9	23.9	36.0	28.9	24.3	36.0	16.5	22.2
Other												
Black Carbon	%	< 0.19 U	NA	NA	NA	NA	NA	< 0.18 U	NA	NA	< 0.18 U	NA
Percent Moisture	%	14.0	15.7	15.0	14.1	13.5	39.3	23.1	18.5	13.9	17.7	17.2
Total Organic Carbon	%	1.78	NA	NA	NA	NA	NA	1.68	NA	NA	1.61	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	4.34	5.50	0.274 J	NA	NA	NA	1.96	0.607	0.401 J	2.17	1.04
2-Methylnaphthalene	ug/kg	10.1	9.17	0.556 J	NA	NA	NA	4.39	1.21 J	0.761 J	5.48	2.20
Acenaphthene	ug/kg	1.67	1.57	0.159	NA	NA	NA	0.266	0.119	0.096 J	< 0.1 U	0.127
Acenaphthylene	ug/kg	2.43	1.37	0.045	NA	NA	NA	1.19	0.170	0.106	< 0 U	0.193
Anthracene	ug/kg	2.04	0.855	< 0.1 U	NA	NA	NA	1.29	0.115 J	0.083 J	< 0.1 U	0.192
Benzo(a)Anthracene	ug/kg	6.57	6.61	0.468	NA	NA	NA	5.11	0.480	0.321	4.42	0.713
Benzo(a)Pyrene	ug/kg	8.25 J	10.1	0.486	NA	NA	NA	2.57	0.109	0.078 J	6.24	0.566
Benzo(b)Fluoranthene	ug/kg	28.9	22.1	1.37	NA	NA	NA	17.7	1.48	0.795	18.5	2.82
Benzo(g,h,i)Perylene	ug/kg	19.1 J	17.3	0.864	NA	NA	NA	5.33	0.393	0.148	11.0	1.01
Benzo(j)+(k)Fluoranthene	ug/kg	5.99	8.22	0.384	NA	NA	NA	4.57	0.316	0.174	7.09	0.753
Chrysene/Triphenylene	ug/kg	59.6	42.5	3.33	NA	NA	NA	17.1	0.986	0.540	35.1	3.87
Dibenz(a,h)Anthracene	ug/kg	4.45	3.95	0.274	NA	NA	NA	1.83	0.163	0.082	3.13	0.310
Fluoranthene	ug/kg	11.4	12.0	0.876	NA	NA	NA	11.3	1.06	0.951	8.49	2.53
Fluorene	ug/kg	3.96	3.81	0.493	NA	NA	NA	2.23	1.17	1.14	< 0.2 U	1.89
Indeno[1,2,3-cd]pyrene	ug/kg	5.63	5.36	0.325	NA	NA	NA	5.05	0.483	0.188	4.60	0.560
Naphthalene	ug/kg	4.27	3.38	< 0.611 UB	NA	NA	NA	3.52	1.29	0.652	2.25	1.02
Phenanthrene	ug/kg	22.1	21.2	2.28	NA	NA	NA	12.2	3.64	4.47	11.8	8.68
Pyrene	ug/kg	40.7	36.5	1.54	NA	NA	NA	9.31	0.537	0.282	21.0	2.37
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	34.5	26.8	1.71	NA	NA	NA	9.34	0.842	0.473	21.7	2.14
C1-Chrysenes	ug/kg	104	124	8.79	NA	NA	NA	22.3	1.56	< 0.2 U	80.0	9.76
C1-Fluoranthenes/Pyrenes	ug/kg	94	119	6.56	NA	NA	NA	14.0	0.849	0.482	55.1	6.32
C1-Fluorenes	ug/kg	16.8	30.4	1.10	NA	NA	NA	3.21	0.714	0.653	< 0.4 U	3.16
C1-Phenanthrenes/Anthracenes	ug/kg	85.9	92.2	12.8	NA	NA	NA	15.5	< 0.1 U	< 0.1 U	28.3	15.3
C2-Chrysenes	ug/kg	149	165	12.6	NA	NA	NA	26.2	1.97	< 0.2 U	89.6	10.1
C2-Fluorenes	ug/kg	63.2	< 0.4 U	< 0.4 U	NA	NA	NA	10.2	< 0.4 U	< 0.4 U	< 0.4 U	9.44
C2-Naphthalenes	ug/kg	19.6	33.1	1.44	NA	NA	NA	7.27	2.10	1.63	13.9	6.71
C2-Phenanthrenes/Anthracenes	ug/kg	260	394	31.5	NA	NA	NA	35.2	< 0.3 U	< 0.3 U	125	28.8
C3-Chrysenes	ug/kg	106	104	7.83	NA	NA	NA	17.3	1.91	< 0.2 U	60.8	7.39
C3-Fluorenes	ug/kg	154	< 0.4 U	< 0.4 U	NA	NA	NA	19.7	< 0.4 U	< 0.4 U	< 0.4 U	21.9
C3-Naphthalenes	ug/kg	39.2	69.6	1.62	NA	NA	NA	8.63	1.59	0.785	26.9	12.5
C3-Phenanthrenes/Anthracenes	ug/kg	464	740	45.5	NA	NA	NA	55.0	< 0.3 U	< 0.3 U	278	39.7
C4-Chrysenes	ug/kg	39.5	63.9	4.14	NA	NA	NA	7.80	< 0.2 U	< 0.2 U	38.9	5.32
C4-Naphthalenes	ug/kg	70.9	211	3.73	NA	NA	NA	13.3	1.99	< 0.7 U	52.9	14.7
C4-Phenanthrenes/Anthracenes	ug/kg	347	542	34.4	NA	NA	NA	46.2	< 0.3 U	< 0.3 U	234	25.6
Perylene	ug/kg	3.60 J	4.24	0.309 J	NA	NA	NA	R	R	R	2.10 J	R
Phenanthrene, 2-methyl-	ug/kg	27.1	29.1	2.90	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	3.00	2.39	< 0.307 UB	NA	NA	NA	NA	NA	NA	NA	NA

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-020	SO-DA-020	SO-DA-020	SO-DA-021	SO-DA-021
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-019(0.0-0.5)	SO-DA-019(0.5-1.0)	SO-DA-019(1.0-1.5)	SO-DA-019(1.5-2.0)	SO-DA-019(2.0-3.0)	SO-DA-019(3.0-4.0)	SO-DA-020(0.0-0.5)	SO-DA-020(0.5-1.0)	SO-DA-020(1.0-1.5)	SO-DA-021(0.0-0.5)	SO-DA-021(0.5-1.0)
Chemical	**Units**											
18a-Oleanane	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	28.3	30.9	3.35	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	5.33	8.90	0.784	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	23.1 J	24.7	2.77	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	4.22	7.91	0.135	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	31.7	34.9	3.19	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	6.15	6.76	4.95	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	8.46	9.88	0.753	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	17.1 J	24.1	1.58	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	21.8	23.2	2.30	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	43.7	44.3	4.37	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	33.4	35.9	3.75	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	1.69	3.97	0.431	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	0.423	0.295	0.177	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	4.97	4.68	< 0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	76.3	81.0	8.04	NA	NA	NA	8.03	0.704	0.586	25.4	14.3
C1-Naphthalenes	ug/kg	9.19	9.33	0.529 J	NA	NA	NA	4.05	1.16	0.739 J	4.89	2.07
C1-Naphthobenzothiophenes	ug/kg	218	258	19.3	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	475	439	29.4	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	14.5	10.9	< 0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	233	339	25.8	NA	NA	NA	27.7	1.10	0.734	112	30.5
C2-Fluoranthenes/Pyrenes	ug/kg	131	159	12.5	NA	NA	NA	20.8	1.87	0.925	89.8	8.85
C2-Naphthobenzothiophenes	ug/kg	371	403	25.7	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	662	537	39.4	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	17.8	21.1	< 0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	409	762	43.8	NA	NA	NA	57.0	2.48	0.957	270	41.7
C3-Fluoranthenes/Pyrenes	ug/kg	129	157	11.5	NA	NA	NA	18.2	1.32	0.634	77.7	8.70
C3-Naphthobenzothiophenes	ug/kg	312	315	24.5	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	35.6	69.1	< 0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	380	589	36.7	NA	NA	NA	54.2	3.31	1.66	256	33.3
C4-Fluoranthenes/Pyrenes	ug/kg	199	183	16.0	NA	NA	NA	30.6	2.38	1.28	111	12.8
C4-Naphthobenzothiophenes	ug/kg	132	169	12.6	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	3.71	3.32	0.394	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	15.8 J	17.9	1.14	NA	NA	NA	2.61	0.492	0.486	6.85	3.39
Naphthalene, 2,6-dimethyl-	ug/kg	10.1	13.7	0.505	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	69.7	98.9	6.58	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	23.6	43.6	2.86	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 11 U	< 11 U	< 10 U	< 12 U	< 12 U	< 17 U	< 12 U	< 12 U	< 13 U	< 12 U	< 12 U
1,1-Dichloroethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,1-Dichloroethene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,1-Dichloropropene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,2-Dichloroethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,2-Dichloropropane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
1,3-Dichloropropane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-020	SO-DA-020	SO-DA-020	SO-DA-021	SO-DA-021
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-019(0.0-0.5)	SO-DA-019(0.5-1.0)	SO-DA-019(1.0-1.5)	SO-DA-019(1.5-2.0)	SO-DA-019(2.0-3.0)	SO-DA-019(3.0-4.0)	SO-DA-020(0.0-0.5)	SO-DA-020(0.5-1.0)	SO-DA-020(1.0-1.5)	SO-DA-021(0.0-0.5)	SO-DA-021(0.5-1.0)
Chemical	**Units**											
1,4-Dichlorobenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
2,2-Dichloropropane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
2-Butanone (MEK)	ug/kg	15	5 J	7 J	7 J	6 J	8 J	31 J	< 12 UJ	< 13 UJ	9 J	< 12 U
2-Chlorotoluene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
2-Phenylbutane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
4-Chlorotoluene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 11 U	< 11 U	< 10 U	< 12 U	< 12 U	< 17 U	< 12 UJ	< 12 UJ	< 13 UJ	< 12 U	< 12 U
Acetone	ug/kg	89	53	44	41	41	43	230 J	51	44	100	27
Allyl chloride	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Benzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Bromobenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
Bromochloromethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Bromodichloromethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Bromomethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Carbon Tetrachloride	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Chlorobenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Chloroethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 UJ	< 6 UJ	< 6 U	< 6 U
Chloroform	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Chloromethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 UJ	< 6 UJ	< 6 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Dibromochloromethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Dibromomethane	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Dichlorofluoromethane	ug/kg	< 6 UJ	< 6 UJ	< 5 UJ	< 6 UJ	< 6 UJ	< 9 UJ	< 6 U	< 6 U	< 6 U	< 6 UJ	< 6 UJ
Diethyl ether (Ethyl ether)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Ethylbenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
n-Butylbenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
n-Propylbenzene	ug/kg	< 6 UJ	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
Styrene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Tert-Butylbenzene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 U	< 6 U	< 6 U	< 6 U
Tetrachloroethene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Tetrahydrofuran	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 UJ	< 6 UJ	< 6 UJ	< 6 U	< 6 U
Toluene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Trichloroethene	ug/kg	< 6 U	< 6 U	< 5 U	1 J	1 J	< 9 U	1 J	1 J	1 J	< 6 U	< 6 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Vinyl Chloride	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U
Xylene (Total)	ug/kg	< 6 U	< 6 U	< 5 U	< 6 U	< 6 U	< 9 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-023	SO-DA-023
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-021(1.0-1.5)	SO-DA-021(1.5-2.0)	SO-DA-021(2.0-3.0)	SO-DA-021(3.0-4.0)	SO-DA-022(0.0-0.5)	SO-DA-DUP-04-080713FD	SO-DA-022(0.5-1.0)	SO-DA-022(1.0-1.5)	SO-DA-023(0.0-0.5)	SO-DA-DUP-05-080813FD
Chemical	**Units**										
Grain Size											
Sieve 3 inch, % passing	% passing	NA	NA	NA	NA	100	NA	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	NA	NA	100	NA	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	NA	NA	100	NA	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	NA	NA	99.9	NA	NA	NA	100	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	NA	NA	99.7	NA	NA	NA	100	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	NA	NA	99.4	NA	NA	NA	100	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	NA	NA	99.1	NA	NA	NA	100	NA
Sieve, 600 micron, % passing	% passing	NA	NA	NA	NA	98.1	NA	NA	NA	99.9	NA
Sieve, 300 micron, % passing	% passing	NA	NA	NA	NA	96.5	NA	NA	NA	99.4	NA
Sieve, 150 micron, % passing	% passing	NA	NA	NA	NA	94.5	NA	NA	NA	98.5	NA
Sieve, 75 micron, % passing	% passing	NA	NA	NA	NA	91.5	NA	NA	NA	94.9	NA
Sieve, 64 micron, % passing	% passing	NA	NA	NA	NA	83.0	NA	NA	NA	83.5	NA
Sieve, 50 micron, % passing	% passing	NA	NA	NA	NA	65.0	NA	NA	NA	63.0	NA
Sieve, 20 micron, % passing	% passing	NA	NA	NA	NA	32.0	NA	NA	NA	24.0	NA
Sieve, 5 micron, % passing	% passing	NA	NA	NA	NA	12.0	NA	NA	NA	12.0	NA
Sieve, 2 micron, % passing	% passing	NA	NA	NA	NA	8.0	NA	NA	NA	7.0	NA
Sieve, 1 micron, % passing	% passing	NA	NA	NA	NA	6.0	NA	NA	NA	2.5	NA
Metals											
Arsenic	mg/kg	5.82	NA	NA	NA	6.76	7.19	7.79	6.48	5.05	5.55
Barium	mg/kg	56.0	NA	NA	NA	90.2 J	762 J	89.6	74.6	79.1	78.8
Cadmium	mg/kg	< 0.614 U	NA	NA	NA	< 0.658 U	0.101 J	< 0.551 U	< 0.533 U	< 0.586 U	< 0.589 U
Chromium	mg/kg	12.9	NA	NA	NA	15.2	19.7	22.5	16.3	12.7	12.5
Lead	mg/kg	12.9	NA	NA	NA	18.4	28.3	14.2	13.0	16.3	16.2
Mercury	mg/kg	0.0185 J	NA	NA	NA	0.0360 J	0.0270 J	0.0284 J	0.0263 J	0.0209 J	0.0315 J
Nickel	mg/kg	8.38	NA	NA	NA	9.99	15.6	8.91	9.51	9.67	9.81
Selenium	mg/kg	< 2.46 U	NA	NA	NA	< 2.63 U	4.71	< 2.20 U	< 2.13 U	< 2.35 U	< 2.35 U
Silver	mg/kg	< 0.614 U	NA	NA	NA	< 0.658 U	0.522 J	< 0.551 U	< 0.533 U	< 0.586 U	< 0.589 U
Vanadium	mg/kg	23.8	NA	NA	NA	26.6	36.0	31.7	29.7	21.9	21.2
Other											
Black Carbon	%	NA	NA	NA	NA	< 0.21 U	< 0.19 U	NA	NA	< 0.2 U	< 0.19 U
Percent Moisture	%	19.4	17.1	14.4	14.2	25.5	17.2	10.1	8.0	17.2	15.9
Total Organic Carbon	%	NA	NA	NA	NA	1.76	1.65	NA	NA	1.21	1.22
Priority PAHs											
1-Methylnaphthalene	ug/kg	0.362 J	NA	NA	NA	4.02	2.85	0.501 J	0.397 J	2.75	2.75
2-Methylnaphthalene	ug/kg	0.759 J	NA	NA	NA	7.27	5.42	1.03 J	0.808 J	7.56	8.17
Acenaphthene	ug/kg	< 0.1 U	NA	NA	NA	< 0.1 U	< 0.1 U	0.191	0.183	0.976 J	< 0.1 UJ
Acenaphthylene	ug/kg	< 0 U	NA	NA	NA	1.99 J	< 0 UJ	0.131	0.101	2.01 J	< 0.04 UJ
Anthracene	ug/kg	< 0.1 U	NA	NA	NA	< 0.1 U	< 0.1 U	< 0.1 U	0.057 J	< 0.1 U	< 0.1 U
Benzo(a)Anthracene	ug/kg	< 0.2 U	NA	NA	NA	< 0.2 U	< 0.2 U	0.294	0.442	6.99	5.29
Benzo(a)Pyrene	ug/kg	< 0.1 U	NA	NA	NA	12.0	11.7	0.142	0.167	12.5	9.09
Benzo(b)Fluoranthene	ug/kg	< 0.2 U	NA	NA	NA	23.0	27.8	0.989	1.03	27.9	25.7
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	NA	NA	NA	20.4	19.0	0.567	0.804	22.9	26.8
Benzo(j)+(k)Fluoranthene	ug/kg	< 0.1 U	NA	NA	NA	8.63	11.1	0.210	0.213	12.4 J	6.90 J
Chrysene/Triphenylene	ug/kg	< 0.1 U	NA	NA	NA	61.2 J	< 0.1 UJ	2.05	2.65	47.2	50.0
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	NA	NA	NA	4.90	4.71	0.196	0.234	5.12	5.87
Fluoranthene	ug/kg	0.767	NA	NA	NA	13.2	13.6	0.861	0.738	12.8	10.8
Fluorene	ug/kg	1.17	NA	NA	NA	4.45 J	< 0.2 UJ	< 0.2 U	1.38	5.40 J	2.49 J
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	NA	NA	NA	6.05	5.89	0.292	0.395	9.33	10.1
Naphthalene	ug/kg	0.668	NA	NA	NA	3.01	3.15	1.23	0.913	3.58	4.02
Phenanthrene	ug/kg	4.40	NA	NA	NA	32.1	22.3	4.06	3.32	18.0	13.7
Pyrene	ug/kg	0.322	NA	NA	NA	40.3	38.7	0.787	1.18	29.4	30.2
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	< 0.2 U	NA	NA	NA	34.1	33.3	1.10	1.46	40.2	41.1
C1-Chrysenes	ug/kg	< 0.2 U	NA	NA	NA	162 J	< 0.2 UJ	5.82	< 0.2 U	114	135
C1-Fluoranthenes/Pyrenes	ug/kg	1.10	NA	NA	NA	159	171	2.50	3.16	92.3	91.6
C1-Fluorenes	ug/kg	0.790	NA	NA	NA	35.3 J	< 0.4 UJ	0.866	0.881	21.7 J	< 0.4 UJ
C1-Phenanthrenes/Anthracenes	ug/kg	4.61	NA	NA	NA	143	98.0	< 0.1 U	< 0.1 U	30.1	27.3
C2-Chrysenes	ug/kg	< 0.2 U	NA	NA	NA	223 J	< 0.2 UJ	5.44	< 0.2 U	146	242
C2-Fluorenes	ug/kg	< 0.4 U	NA	NA	NA	143 J	< 0.4 UJ	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	1.52	NA	NA	NA	50.9	31.2	2.75	2.16	12.6	12.6
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	NA	NA	NA	446	369	< 0.3 U	< 0.3 U	174	146
C3-Chrysenes	ug/kg	< 0.2 U	NA	NA	NA	163 J	< 0.2 UJ	4.57	< 0.2 U	114	188
C3-Fluorenes	ug/kg	< 0.4 U	NA	NA	NA	281 J	< 0.4 UJ	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	1.37	NA	NA	NA	160	115	2.45	2.55	27.4	26.1
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	NA	NA	NA	780	798	< 0.3 U	< 0.3 U	447	355
C4-Chrysenes	ug/kg	< 0.2 U	NA	NA	NA	115 J	< 0.2 UJ	3.19	< 0.2 U	79.7	113
C4-Naphthalenes	ug/kg	< 0.7 U	NA	NA	NA	328	314	< 0.7 U	< 0.7 U	93.2 J	50.5 J
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	NA	NA	NA	679	556	< 0.3 U	< 0.3 U	436	343
Perylene	ug/kg	R	NA	NA	NA	4.19 J	< 1.3 UJ	R	R	< 1.3 U	< 1.3 UJ
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-023	SO-DA-023
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-021(1.0-1.5)	SO-DA-021(1.5-2.0)	SO-DA-021(2.0-3.0)	SO-DA-021(3.0-4.0)	SO-DA-022(0.0-0.5)	SO-DA-DUP-04-080713FD	SO-DA-022(0.5-1.0)	SO-DA-022(1.0-1.5)	SO-DA-023(0.0-0.5)	SO-DA-DUP-05-080813FD
Chemical	**Units**										
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	1.46	NA	NA	NA	176	120	< 0.1 U	< 0.1 U	26.4	22.7
C1-Naphthalenes	ug/kg	0.714 J	NA	NA	NA	7.17	5.26	0.972 J	0.767 J	6.59	7.13
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	3.68	NA	NA	NA	542	460	< 0.2 U	< 0.2 U	189	129
C2-Fluoranthenes/Pyrenes	ug/kg	2.17	NA	NA	NA	261	248	5.32	6.13	155	163
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	6.70	NA	NA	NA	954	1013	< 0.2 U	< 0.2 U	529	380
C3-Fluoranthenes/Pyrenes	ug/kg	1.84	NA	NA	NA	216	180	4.57	5.37	129	186
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	6.41	NA	NA	NA	822	812	< 0.2 U	< 0.2 U	537	412
C4-Fluoranthenes/Pyrenes	ug/kg	2.71	NA	NA	NA	238	218	6.88	< 0.5 U	167 J	290 J
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	0.623	NA	NA	NA	36.7	23.4	0.588	0.484	9.34	6.46
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 10 U	< 10 U	< 14 U	< 13 U	< 15 U	< 13 U	< 12 U	< 13 U	< 13 U	< 12 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-023	SO-DA-023
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-021(1.0-1.5)	SO-DA-021(1.5-2.0)	SO-DA-021(2.0-3.0)	SO-DA-021(3.0-4.0)	SO-DA-022(0.0-0.5)	SO-DA-DUP-04-080713FD	SO-DA-022(0.5-1.0)	SO-DA-022(1.0-1.5)	SO-DA-023(0.0-0.5)	SO-DA-DUP-05-080813FD
Chemical	**Units**										
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
2-Butanone (MEK)	ug/kg	< 10 U	< 10 U	< 14 U	< 13 U	33 J	17	10 J	7 J	31	25
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 10 U	< 10 U	< 14 U	< 13 U	< 15 UJ	< 13 U	< 12 UJ	< 13 UJ	< 13 U	< 12 U
Acetone	ug/kg	29	17 J	19 J	< 25 U	240	160	98	79	220	190
Allyl chloride	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Benzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 UJ	< 7 UJ	< 7 U	< 6 U
Chloroform	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 UJ	< 7 UJ	< 7 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 UJ	< 6 U	< 7 U	< 7 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	5 J	< 6 U	< 7 U	< 7 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	3 J	< 6 U	< 7 U	< 7 U	< 6 U
Styrene	ug/kg	< 5 UJ	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 UJ	< 6 U	< 6 UJ	< 7 UJ	< 7 U	< 6 U
Toluene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	2 J	< 6 U	< 7 U	< 7 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Trichloroethene	ug/kg	2 J	2 J	2 J	2 J	2 J	< 6 U	2 J	3 J	5 J	3 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U	< 7 U	< 7 U	< 6 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-024	SO-DA-024	SO-DA-024	SO-DA-025	SO-DA-025	SO-DA-025
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-023(0.5-1.0)	SO-DA-023(1.0-1.5)	SO-DA-023(1.5-2.0)	SO-DA-023(2.0-3.0)	SO-DA-023(3.0-4.0)	SO-DA-024(0.0-0.5)	SO-DA-024(0.5-1.0)	SO-DA-024(1.0-1.5)	SO-DA-025(0.0-0.5)	SO-DA-025(0.5-1.0)	SO-DA-025(1.0-1.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	NA	NA	NA	100	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	NA	NA	NA	100	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	NA	NA	NA	100	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	NA	NA	NA	99.6	NA	NA	99.5	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	NA	NA	NA	99.4	NA	NA	99.3	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	NA	NA	NA	99.2	NA	NA	99.1	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	NA	NA	NA	98.4	NA	NA	98.7	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	NA	NA	NA	96.9	NA	NA	97.8	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	NA	NA	NA	95.5	NA	NA	96.6	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	NA	NA	NA	89.1	NA	NA	95.7	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	NA	NA	NA	79.2	NA	NA	94.6	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	NA	NA	NA	69.0	NA	NA	90.5	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	NA	NA	NA	46.0	NA	NA	81.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	NA	NA	NA	14.0	NA	NA	63.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	NA	NA	NA	8.0	NA	NA	30.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	NA	NA	NA	6.0	NA	NA	22.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	NA	NA	NA	4.0	NA	NA	17.0	NA	NA
Metals												
Arsenic	mg/kg	5.08	5.59	NA	NA	NA	8.74	2.77	6.77	4.99	5.44	4.89
Barium	mg/kg	78.0	64.5	NA	NA	NA	75.1	92.1	80.9	124	67.0	70.0
Cadmium	mg/kg	< 0.579 U	< 0.599 U	NA	NA	NA	< 0.571 U	< 2.97 U	< 0.580 U	< 0.755 U	< 0.623 U	< 0.621 U
Chromium	mg/kg	14.2	16.2	NA	NA	NA	26.4	45.9	37.6	17.0	15.1	21.9
Lead	mg/kg	11.4	10.9	NA	NA	NA	12.5	15.3	13.9	30.2	12.1	11.0
Mercury	mg/kg	0.0276 J	0.0299 J	NA	NA	NA	0.0136 J	0.0158 J	0.0243 J	0.0287 J	0.0144 J	0.0190 J
Nickel	mg/kg	10.9	10.8	NA	NA	NA	11.2	15.4	13.7	10.8	7.23	8.66
Selenium	mg/kg	< 2.32 U	< 2.40 U	NA	NA	NA	< 2.28 U	< 11.9 U	< 2.32 U	1.92 J	1.41 J	1.16 J
Silver	mg/kg	< 0.579 U	< 0.599 U	NA	NA	NA	< 0.571 U	0.357 J	0.283 J	< 0.755 U	< 0.623 U	< 0.621 U
Vanadium	mg/kg	25.0	28.9	NA	NA	NA	40.7	62.2	56.0	31.6	31.2	44.6
Other												
Black Carbon	%	NA	NA	NA	NA	NA	< 0.19 U	NA	NA	< 0.2 U	NA	NA
Percent Moisture	%	17.0	19.8	22.1	19.8	15.4	13.3	18.3	16.3	35.1	19.8	20.3
Total Organic Carbon	%	NA	NA	NA	NA	NA	0.61	NA	NA	1.48	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	1.02	0.568	NA	NA	NA	2.31	0.862	1.10	3.39	0.717	0.406 J
2-Methylnaphthalene	ug/kg	2.17	1.18 J	NA	NA	NA	4.52	1.82	2.16	5.61	1.34	0.668 J
Acenaphthene	ug/kg	< 0.1 U	< 0.1 U	NA	NA	NA	< 0.1 U	< 0.1 U	< 0.1 U	0.304	< 0.1 U	< 0.1 U
Acenaphthylene	ug/kg	< 0.04 U	< 0.04 U	NA	NA	NA	< 0.04 U	< 0.04 U	< 0.04 U	0.824	< 0 U	< 0 U
Anthracene	ug/kg	< 0.1 U	< 0.1 U	NA	NA	NA	0.529	< 0.1 U	< 0.1 U	0.860	< 0.1 U	< 0.1 U
Benzo(a)Anthracene	ug/kg	0.471	0.446	NA	NA	NA	2.10	< 0.2 U	< 0.2 U	2.73	0.109 J	0.143 J
Benzo(a)Pyrene	ug/kg	0.426	0.336	NA	NA	NA	2.13	0.046 J	< 0.1 U	3.11	< 0.1 U	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	1.76	1.25	NA	NA	NA	8.18	0.266	0.081 J	11.0	< 0.2 U	< 0.2 U
Benzo(g,h,i)Perylene	ug/kg	2.33	1.72	NA	NA	NA	9.77	0.214	0.067 J	4.92	< 0.1 U	0.137
Benzo(j)+(k)Fluoranthene	ug/kg	0.882	0.485	NA	NA	NA	2.55	0.082 J	0.019 J	3.32	< 0.1 U	< 0.1 U
Chrysene/Triphenylene	ug/kg	3.89	2.69	NA	NA	NA	20.1	0.521	< 0.1 U	18.7	0.145	0.262
Dibenz(a,h)Anthracene	ug/kg	0.515	0.338	NA	NA	NA	1.99	0.071	0.029 J	1.70	< 0.1 U	< 0.1 U
Fluoranthene	ug/kg	1.61	0.883	NA	NA	NA	6.69	1.16	1.58	8.18	0.675	0.572
Fluorene	ug/kg	2.62	1.21	NA	NA	NA	2.86	3.40	5.62	2.62	1.95	1.08
Indeno[1,2,3-cd]pyrene	ug/kg	0.985	0.607	NA	NA	NA	3.56	0.127	0.042 J	2.81	< 0.1 U	0.113
Naphthalene	ug/kg	1.63	0.913	NA	NA	NA	2.09	1.54	1.64	3.84	1.05	0.579
Phenanthrene	ug/kg	7.85	3.43	NA	NA	NA	19.0	9.28	15.3	15.5	5.50	3.51
Pyrene	ug/kg	1.49	1.39	NA	NA	NA	14.1	0.236	0.139	9.47	0.219	0.375
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	2.86	1.94	NA	NA	NA	10.4	0.332	0.106 J	8.48	< 0.2 U	< 0.2 U
C1-Chrysenes	ug/kg	8.85	6.33	NA	NA	NA	51.8	1.46	< 0.2 U	29.7	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	5.42	4.50	NA	NA	NA	36.7	0.765	< 0.5 U	28.0	0.356 J	0.524
C1-Fluorenes	ug/kg	1.89	0.939	NA	NA	NA	13.0	1.32	2.40	5.53	1.03	0.693
C1-Phenanthrenes/Anthracenes	ug/kg	5.51	4.13	NA	NA	NA	61.0	4.62	5.25	38.4	< 0.1 U	< 0.1 U
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	NA	NA	NA	82.5	< 0.2 U	< 0.2 U	38.5	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	NA	NA	NA	50.4	< 0.4 U	3.22	30.4	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	4.78	2.51	NA	NA	NA	16.6	3.53	5.10	12.6	3.62	1.98
C2-Phenanthrenes/Anthracenes	ug/kg	13.0	11.2	NA	NA	NA	144	6.64	5.23	103	< 0.3 U	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	NA	NA	NA	56.3	< 0.2 U	< 0.2 U	29.2	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	NA	NA	NA	90.2	< 0.4 U	< 0.4 U	71.0	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	3.60	2.25	NA	NA	NA	39.9	2.43	3.37	24.7	4.29	2.89
C3-Phenanthrenes/Anthracenes	ug/kg	23.3	18.4	NA	NA	NA	172	4.16	< 0.3 U	153	< 0.3 U	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	NA	NA	NA	37.5	< 0.2 U	< 0.2 U	16.6	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	7.20	3.96	NA	NA	NA	59.8	2.89	3.96	46.1	< 0.7 U	3.38
C4-Phenanthrenes/Anthracenes	ug/kg	22.7	16.7	NA	NA	NA	120	3.26	< 0.3 U	103	< 0.3 U	< 0.3 U
Perylene	ug/kg	R	R	NA	NA	NA	1.12 J	R	R	1.16 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

	Location	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-024	SO-DA-024	SO-DA-024	SO-DA-025	SO-DA-025	SO-DA-025
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-023(0.5-1.0)	SO-DA-023(1.0-1.5)	SO-DA-023(1.5-2.0)	SO-DA-023(2.0-3.0)	SO-DA-023(3.0-4.0)	SO-DA-024(0.0-0.5)	SO-DA-024(0.5-1.0)	SO-DA-024(1.0-1.5)	SO-DA-025(0.0-0.5)	SO-DA-025(0.5-1.0)	SO-DA-025(1.0-1.5)
Chemical	**Units**											
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	2.57	1.55	NA	NA	NA	72.7	1.25	0.904	32.9	0.536	0.660
C1-Naphthalenes	ug/kg	2.07	1.14	NA	NA	NA	4.44	1.74	2.12	5.71	1.31	0.681 J
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	8.66	7.09	NA	NA	NA	165	3.23	1.42	108	0.932	1.43
C2-Fluoranthenes/Pyrenes	ug/kg	9.53	6.94	NA	NA	NA	56.6	1.25	< 0.5 U	45.3	< 0.5 U	0.814
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	23.7	22.4	NA	NA	NA	261	4.19	1.45	183	0.954	2.35
C3-Fluoranthenes/Pyrenes	ug/kg	6.90	5.08	NA	NA	NA	59.1	1.35	< 0.5 U	43.6	< 0.5 U	0.765
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	24.5	18.1	NA	NA	NA	195	3.46	0.827	142	0.906	2.51
C4-Fluoranthenes/Pyrenes	ug/kg	12.3	9.54	NA	NA	NA	89.3	< 0.5 U	< 0.5 U	54.7	< 0.5 U	1.36
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	1.10	0.589	NA	NA	NA	13.4	0.761	1.03	6.14	0.470	0.384
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 10 U	< 11 U	< 11 U	< 10 U	< 12 U	< 11 U	< 9 U	< 11 U	< 16 U	< 10 U	< 10 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-024	SO-DA-024	SO-DA-024	SO-DA-025	SO-DA-025	SO-DA-025
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-023(0.5-1.0)	SO-DA-023(1.0-1.5)	SO-DA-023(1.5-2.0)	SO-DA-023(2.0-3.0)	SO-DA-023(3.0-4.0)	SO-DA-024(0.0-0.5)	SO-DA-024(0.5-1.0)	SO-DA-024(1.0-1.5)	SO-DA-025(0.0-0.5)	SO-DA-025(0.5-1.0)	SO-DA-025(1.0-1.5)
Chemical	**Units**											
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
2-Butanone (MEK)	ug/kg	9 J	< 11 U	< 11 U	< 10 U	< 12 U	5 J	< 9 U	< 11 U	7 J	< 10 U	7 J
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 10 U	< 11 U	< 11 U	< 10 U	< 12 U	< 11 U	< 9 U	< 11 U	< 16 U	< 10 U	< 10 U
Acetone	ug/kg	80	17 J	20 J	< 21 U	< 23 U	56	50	56	130	46	74
Allyl chloride	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Benzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Chloroform	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 UJ	< 5 UJ	< 5 UJ
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Styrene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Toluene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Trichloroethene	ug/kg	2 J	2 J	3 J	2 J	4 J	5 J	3 J	2 J	< 8 U	1 J	< 5 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 6 U	< 5 U	< 6 U	< 5 U	< 5 U	< 6 U	< 8 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-026	SO-DA-026	SO-DA-026	SO-DA-027	SO-DA-027	SO-DA-027	SO-DA-028	SO-DA-028	SO-DA-028	SO-DA-029
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/11/2013	8/11/2013	8/11/2013	8/8/2013	8/8/2013	8/8/2013	8/11/2013	8/11/2013	8/11/2013	8/11/2013
	Sample ID	SO-DA-026-(0.0-0.5)	SO-DA-026-(0.5-1.0)	SO-DA-026-(1.0-1.5)	SO-DA-027(0.0-0.5)	SO-DA-027(0.5-1.0)	SO-DA-027(1.0-1.5)	SO-DA-028-(0.0-0.5)	SO-DA-028-(0.5-1.0)	SO-DA-028-(1.0-1.5)	SO-DA-029-(0.0-0.5)
Chemical	**Units**										
Grain Size											
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve 0.75 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve, 4750 micron, % passing	% passing	100	NA	NA	100	NA	NA	99.6	NA	NA	99.9
Sieve, 3350 micron, % passing	% passing	100	NA	NA	100	NA	NA	99.4	NA	NA	99.7
Sieve, 2360 micron, % passing	% passing	99.8	NA	NA	99.8	NA	NA	99.2	NA	NA	99.4
Sieve, 1180 micron, % passing	% passing	99.6	NA	NA	99.5	NA	NA	99.0	NA	NA	99.4
Sieve, 600 micron, % passing	% passing	99.2	NA	NA	98.1	NA	NA	98.5	NA	NA	98.9
Sieve, 300 micron, % passing	% passing	98.8	NA	NA	96.8	NA	NA	97.7	NA	NA	98.2
Sieve, 150 micron, % passing	% passing	98.4	NA	NA	92.3	NA	NA	96.3	NA	NA	97.2
Sieve, 75 micron, % passing	% passing	97.4	NA	NA	83.5	NA	NA	94.4	NA	NA	95.0
Sieve, 64 micron, % passing	% passing	87.0	NA	NA	76.0	NA	NA	88.0	NA	NA	91.5
Sieve, 50 micron, % passing	% passing	61.5	NA	NA	60.0	NA	NA	74.0	NA	NA	82.0
Sieve, 20 micron, % passing	% passing	27.0	NA	NA	31.0	NA	NA	46.0	NA	NA	51.5
Sieve, 5 micron, % passing	% passing	13.0	NA	NA	19.0	NA	NA	18.0	NA	NA	26.0
Sieve, 2 micron, % passing	% passing	6.0	NA	NA	13.0	NA	NA	13.0	NA	NA	19.5
Sieve, 1 micron, % passing	% passing	0.50	NA	NA	7.0	NA	NA	9.0	NA	NA	16.0
Metals											
Arsenic	mg/kg	6.72	5.50	7.53	13.8	42.8	39.8	6.28	5.55	7.50	8.58
Barium	mg/kg	93.1	74.5	204	173	77.8	83.9	68.2	42.9	45.6	100
Cadmium	mg/kg	< 0.625 U	< 0.627 U	< 0.633 U	< 0.558 U	< 2.80 U	< 2.94 U	< 0.683 U	< 0.581 U	< 0.576 U	< 0.645 U
Chromium	mg/kg	16.2	13.7	41.9	33.1	70.8	89.6	15.5	14.9	21.2	25.5
Lead	mg/kg	21.4	16.6	14.7	31.1	32.0	34.6	30.4	10.7	11.6	26.7
Mercury	mg/kg	0.0275 J	0.0134 J	< 0.127 U	0.0304 J	< 0.111 U	0.0151 J	0.0377 J	0.0164 J	0.0134 J	0.0206 J
Nickel	mg/kg	10.9	10.2	30.3	15.9	22.2	37.7	8.31	7.12	9.02	13.1
Selenium	mg/kg	< 2.50 U	< 2.51 U	< 2.53 U	< 11.2 U	< 11.2 U	< 11.8 U	< 2.73 U	< 2.33 U	< 2.30 U	< 2.58 U
Silver	mg/kg	< 0.625 U	< 0.627 U	< 0.633 U	0.345 J	< 2.80 U	1.05 J	< 0.683 U	< 0.581 U	< 0.576 U	< 0.645 U
Vanadium	mg/kg	27.5	22.2	64.5	49.2	52.5	52.8	27.4	27.1	37.8	42.8
Other											
Black Carbon	%	< 0.16 U	NA	NA	< 0.19 U	NA	NA	< 0.17 U	NA	NA	< 0.17 U
Percent Moisture	%	20.8	21.1	22.6	11.3	13.3	15.1	29.6	17.3	15.7	24.0
Total Organic Carbon	%	1.11 J	NA	NA	1.43	NA	NA	1.99	NA	NA	0.86 J
Priority PAHs											
1-Methylnaphthalene	ug/kg	3.30	1.02	1.05	2.86	0.869	0.409 J	2.12	3.37	1.94	4.11
2-Methylnaphthalene	ug/kg	7.37	2.62	2.10	3.76	1.81	0.867 J	4.33	6.65	3.82	8.92
Acenaphthene	ug/kg	0.352	< 0.1 U	< 0.1 U	< 0.1 U	0.081 J	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	0.187
Acenaphthylene	ug/kg	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	0.119	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	0.175
Anthracene	ug/kg	0.303	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	0.259	0.079 J	< 0.1 U	< 0.1 U
Benzo(a)Anthracene	ug/kg	0.547	0.094 J	< 0.2 U	1.80	< 0.2 U	0.076 J	0.730	< 0.2 U	< 0.2 U	0.249
Benzo(a)Pyrene	ug/kg	0.283 J	0.020 J	< 0.1 U	1.50	< 0.1 U	< 0.1 U	0.467	< 0.1 U	< 0.1 U	0.055 J
Benzo(b)Fluoranthene	ug/kg	1.53	0.250	< 0.2 U	4.71	0.177 J	0.222	2.28	< 0.2 U	< 0.2 U	0.865
Benzo(g,h,i)Perylene	ug/kg	0.478	0.057 J	< 0.1 U	7.04	0.081 J	0.120	0.815	< 0.1 U	< 0.1 U	0.138
Benzo(j)+(k)Fluoranthene	ug/kg	0.272	0.098 J	< 0.1 U	1.63	0.028 J	0.038 J	0.904	< 0.1 U	< 0.1 U	0.255
Chrysene/Triphenylene	ug/kg	1.02	0.230	< 0.1 U	14.1	< 0.1 U	0.448	1.72	< 0.1 U	< 0.1 U	0.691
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	0.047 J	< 0.1 U	1.32	0.036 J	0.052 J	< 0.1 U	< 0.1 U	< 0.1 U	0.144
Fluoranthene	ug/kg	2.66	0.602	0.427	6.53	0.913	0.432	2.21	1.15	0.648	1.53
Fluorene	ug/kg	6.92	1.48	2.01	3.73	2.46	0.925	2.15	6.66	3.43	4.27
Indeno[1,2,3-cd]pyrene	ug/kg	0.534	0.102	< 0.1 U	1.91	0.069	0.083	0.966	< 0.1 U	< 0.1 U	0.354
Naphthalene	ug/kg	8.56	3.64	2.98	2.37	1.74	1.16	6.51	6.40	4.40	10.3
Phenanthrene	ug/kg	16.6 J	3.93	4.07	28.3	7.15	3.10	5.01	12.4	6.36	10.4
Pyrene	ug/kg	0.921	0.139	0.077 J	11.4	0.128 J	0.169	1.52	0.149	0.094 J	0.456
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	0.730	0.148 J	< 0.2 U	6.70	0.148 J	0.245	1.163	< 0.2 U	< 0.2 U	0.398
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	50.0	< 0.2 U	1.11	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	1.02	0.132 J	< 0.5 U	< 0.5 U	< 0.5 U	0.435 J	1.31	< 0.5 U	< 0.5 U	0.451 J
C1-Fluorenes	ug/kg	2.86	0.633	0.834	14.4	1.12	0.601	1.13	2.46	1.90	1.69
C1-Phenanthrenes/Anthracenes	ug/kg	5.54	< 0.1 U	< 0.1 U	81.3	3.88	3.29	3.42	4.29	< 0.1 U	4.85
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	65.8	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	64.5	1.76	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	7.53	1.77	< 0.7 U	27.1	3.66	1.27	5.00	8.26	4.77	10.1
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	157	4.46	5.68	< 0.3 U	< 0.3 U	< 0.3 U	4.59
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	46.9	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	112	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	3.82	1.36	< 0.7 U	71.0	2.15	1.06	3.88	5.79	4.62	7.32
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	192	< 0.3 U	2.95	< 0.3 U	< 0.3 U	< 0.3 U	1.09
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	31.5	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	4.33	< 0.7 U	< 0.7 U	83.8	2.53	< 0.7 U	2.17	3.89	< 0.7 U	19.3
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	139	< 0.3 U	2.18	< 0.3 U	< 0.3 U	< 0.3 U	1.35
Perylene	ug/kg	R	R	R	0.800 J	R	R	R	R	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-026	SO-DA-026	SO-DA-026	SO-DA-027	SO-DA-027	SO-DA-027	SO-DA-028	SO-DA-028	SO-DA-028	SO-DA-029
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/11/2013	8/11/2013	8/11/2013	8/8/2013	8/8/2013	8/8/2013	8/11/2013	8/11/2013	8/11/2013	8/11/2013
	Sample ID	SO-DA-026-(0.0-0.5)	SO-DA-026-(0.5-1.0)	SO-DA-026-(1.0-1.5)	SO-DA-027(0.0-0.5)	SO-DA-027(0.5-1.0)	SO-DA-027(1.0-1.5)	SO-DA-028-(0.0-0.5)	SO-DA-028-(0.5-1.0)	SO-DA-028-(1.0-1.5)	SO-DA-029-(0.0-0.5)
Chemical	**Units**										
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	1.17	0.428	0.310	103	0.905	0.760	< 0.1 U	< 0.1 U	< 0.1 U	1.52
C1-Naphthalenes	ug/kg	6.95	2.37	2.05	4.28	1.74	0.830 J	4.19	6.51	3.75	8.47
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	1.02	0.432	0.429	195	1.41	2.19	< 0.2 U	< 0.2 U	0.334	1.70
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	0.384 J	< 0.5 U	< 0.5 U	< 0.5 U	1.08	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	< 0.2 U	0.360	0.563	276	1.62	3.80	< 0.2 U	< 0.2 U	0.246	0.840
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	1.14	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	0.375	183	0.833	2.62	< 0.2 U	< 0.2 U	< 0.2 U	0.515
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	1.12	0.382	0.260	18.9	0.767	0.406	0.481	0.642	0.340	1.23
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,1,1-Trichloroethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,1,2,2-Tetrachloroethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,1,2-Trichloroethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 12 U	< 11 U	< 13 U	< 11 U	< 10 U	< 11 U	< 18 U	< 10 U	< 10 U	< 13 U
1,1-Dichloroethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,1-Dichloroethene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,1-Dichloropropene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2,3-Trichlorobenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2,3-Trichloropropane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2,4-Trichlorobenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2,4-Trimethylbenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2-Dibromoethane (EDB)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2-Dichlorobenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2-Dichloroethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,2-Dichloropropane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,3,5-Trimethylbenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,3-Dichlorobenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
1,3-Dichloropropane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-026	SO-DA-026	SO-DA-026	SO-DA-027	SO-DA-027	SO-DA-027	SO-DA-028	SO-DA-028	SO-DA-028	SO-DA-029
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/11/2013	8/11/2013	8/11/2013	8/8/2013	8/8/2013	8/8/2013	8/11/2013	8/11/2013	8/11/2013	8/11/2013
	Sample ID	SO-DA-026-(0.0-0.5)	SO-DA-026-(0.5-1.0)	SO-DA-026-(1.0-1.5)	SO-DA-027(0.0-0.5)	SO-DA-027(0.5-1.0)	SO-DA-027(1.0-1.5)	SO-DA-028-(0.0-0.5)	SO-DA-028-(0.5-1.0)	SO-DA-028-(1.0-1.5)	SO-DA-029-(0.0-0.5)
Chemical	**Units**										
1,4-Dichlorobenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
2,2-Dichloropropane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
2-Butanone (MEK)	ug/kg	12 J	12	< 13 U	8 J	5 J	10 J	11 J	< 10 U	< 10 U	< 13 U
2-Chlorotoluene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
2-Phenylbutane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
4-Chlorotoluene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 12 U	< 11 U	< 13 U	< 11 U	< 10 U	< 11 U	< 18 U	< 10 U	< 10 U	< 13 U
Acetone	ug/kg	130	100	33	110	76	110	230	27	13 J	60
Allyl chloride	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Benzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Bromobenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Bromochloromethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Bromodichloromethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Bromoform (Tribromomethane)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Bromomethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Carbon Tetrachloride	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Chlorobenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Chloroethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Chloroform	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Chloromethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
cis-1,2-Dichloroethene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
cis-1,3-Dichloropropene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Dibromochloromethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Dibromomethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Dichlorofluoromethane	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Diethyl ether (Ethyl ether)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Ethylbenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Hexachloro-1,3-Butadiene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Isopropylbenzene (Cumene)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Methylene Chloride (Dichloromethane)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Methyl-tert-butyl ether	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
n-Butylbenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
n-Propylbenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
p-Isopropyltoluene (Cymene)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Styrene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Tert-Butylbenzene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Tetrachloroethene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Tetrahydrofuran	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Toluene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
trans-1,2-Dichloroethene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
trans-1,3-Dichloropropene	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Trichloroethene	ug/kg	4 J	1 J	2 J	2 J	2 J	3 J	< 9 U	< 5 U	2 J	< 7 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Vinyl Chloride	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U
Xylene (Total)	ug/kg	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U	< 9 U	< 5 U	< 5 U	< 7 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location Depths (ft) Sample Date Sample ID	SO-DA-029 0.5-1 ft 8/11/2013 SO-DA-029-(0.5-1.0)	SO-DA-029 1-1.5 ft 8/11/2013 SO-DA-029-(1.0-1.5)	SO-DA-032 0-0.5 ft 8/7/2013 SO-DA-032(0.0-0.5)	SO-DA-032 0.5-1 ft 8/7/2013 SO-DA-032(0.5-1.0)	SO-DA-032 1-1.5 ft 8/7/2013 SO-DA-032(1.0-1.5)
Chemical	**Units**					
Grain Size						
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	100	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	100	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	100	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	99.9	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	99.5	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	98.9	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	96.1	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	94.1	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	87.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	72.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	32.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	21.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	13.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	10.0	NA	NA
Metals						
Arsenic	mg/kg	11.1	9.19	11.0	10.2	8.02
Barium	mg/kg	82.9	79.0	59.9	55.9	73.3
Cadmium	mg/kg	< 0.637 U	< 0.640 U	< 0.724 U	< 0.636 U	< 0.688 U
Chromium	mg/kg	23.2	26.4	20.4	16.9	31.9
Lead	mg/kg	23.4	24.8	15.8	13.2	15.0
Mercury	mg/kg	0.0254 J	0.0284 J	0.0301 J	0.0144 J	0.0237 J
Nickel	mg/kg	10.9	11.9	6.69	6.31	11.1
Selenium	mg/kg	< 2.55 U	< 2.56 U	1.98 J	1.13 J	1.96 J
Silver	mg/kg	< 0.637 U	< 0.640 U	< 0.724 U	< 0.636 U	< 0.688 U
Vanadium	mg/kg	46.5	53.1	37.7	33.3	60.5
Other						
Black Carbon	%	NA	NA	< 0.19 U	NA	NA
Percent Moisture	%	23.0	23.4	33.6	22.9	29.4
Total Organic Carbon	%	NA	NA	1.13	NA	NA
Priority PAHs						
1-Methylnaphthalene	ug/kg	2.30	2.35	1.64	0.475 J	0.516 J
2-Methylnaphthalene	ug/kg	4.67	4.78	3.43	0.866 J	0.966 J
Acenaphthene	ug/kg	0.105	0.083 J	0.322	0.078 J	0.085 J
Acenaphthylene	ug/kg	0.078	0.044	0.918	0.082	0.073
Anthracene	ug/kg	< 0.1 U	< 0.1 U	1.00	0.059 J	0.058 J
Benzo(a)Anthracene	ug/kg	0.070 J	< 0.2 U	2.04	0.125 J	< 0.2 U
Benzo(a)Pyrene	ug/kg	< 0.1 U	0.026 J	3.22	< 0.1 U	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	0.150 J	0.134 J	11.8	< 0.2 U	< 0.2 U
Benzo(g,h,i)Perylene	ug/kg	0.033 J	0.023 J	4.45	< 0.1 U	< 0.1 U
Benzo(j)+(k)Fluoranthene	ug/kg	0.033 J	0.025 J	3.68	< 0.1 U	< 0.1 U
Chrysene/Triphenylene	ug/kg	0.064 J	< 0.1 U	14.7	0.159	< 0.1 U
Dibenz(a,h)Anthracene	ug/kg	0.023 J	0.020 J	1.52	< 0.1 U	< 0.1 U
Fluoranthene	ug/kg	0.562	0.552	6.57	0.505	0.447
Fluorene	ug/kg	2.97	2.84	3.20	1.07	1.20
Indeno[1,2,3-cd]pyrene	ug/kg	0.075	0.055	2.73	< 0.1 U	< 0.1 U
Naphthalene	ug/kg	5.29	6.00	2.84	0.786	0.807
Phenanthrene	ug/kg	5.96	6.00	13.2	3.14	3.23
Pyrene	ug/kg	0.059 J	0.089 J	8.20	0.290	0.278
Forensic PAHs						
Benzo(e)Pyrene	ug/kg	0.068 J	0.074 J	8.12	< 0.2 U	< 0.2 U
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	25.3	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	22.8	0.326 J	0.463 J
C1-Fluorenes	ug/kg	1.00	0.955	5.41	0.653	0.770
C1-Phenanthrenes/Anthracenes	ug/kg	3.16	< 0.1 U	26.1	< 0.1 U	< 0.1 U
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	30.6	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	24.5	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	4.75	4.52	7.61	2.44	2.75
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	64.0	< 0.3 U	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	24.6	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	54.0	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	2.23	1.78	15.8	4.75	3.35
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	110	< 0.3 U	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	13.9	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	6.43	5.10	30.3	4.24	3.38
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	82.9	< 0.3 U	< 0.3 U
Perylene	ug/kg	R	0.074 J	1.65 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-029	SO-DA-029	SO-DA-032	SO-DA-032	SO-DA-032
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/11/2013	8/11/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-029-(0.5-1.0)	SO-DA-029-(1.0-1.5)	SO-DA-032(0.0-0.5)	SO-DA-032(0.5-1.0)	SO-DA-032(1.0-1.5)
Chemical	**Units**					
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	0.451	0.406	24.2	0.537	0.670
C1-Naphthalenes	ug/kg	4.53	4.63	3.22	0.852 J	0.942 J
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	0.486	0.391	75.5	0.832	1.23
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	36.1	< 0.5 U	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	0.220 J	0.306	117	0.944	1.56
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	34.0	< 0.5 U	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	108	0.551	1.56
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	42.1	< 0.5 U	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	0.457	0.437	4.26	0.354	0.385
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA
VOCs						
1,1,1,2-Tetrachloroethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,1,1-Trichloroethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,1,2,2-Tetrachloroethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,1,2-Trichloroethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 12 U	< 10 U	< 17 U	< 11 U	< 14 U
1,1-Dichloroethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,1-Dichloroethene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,1-Dichloropropene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2,3-Trichlorobenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2,3-Trichloropropane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2,4-Trichlorobenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2,4-Trimethylbenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2-Dibromoethane (EDB)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2-Dichlorobenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2-Dichloroethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,2-Dichloropropane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,3,5-Trimethylbenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,3-Dichlorobenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
1,3-Dichloropropane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-029	SO-DA-029	SO-DA-032	SO-DA-032	SO-DA-032
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/11/2013	8/11/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-029-(0.5-1.0)	SO-DA-029-(1.0-1.5)	SO-DA-032(0.0-0.5)	SO-DA-032(0.5-1.0)	SO-DA-032(1.0-1.5)
Chemical	**Units**					
1,4-Dichlorobenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
2,2-Dichloropropane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
2-Butanone (MEK)	ug/kg	9 J	4 J	< 17 U	< 11 U	< 14 U
2-Chlorotoluene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
2-Phenylbutane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
4-Chlorotoluene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 12 U	< 10 U	< 17 U	< 11 U	< 14 U
Acetone	ug/kg	99	61	83	22	13 J
Allyl chloride	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Benzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Bromobenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Bromochloromethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Bromodichloromethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Bromoform (Tribromomethane)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Bromomethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Carbon Tetrachloride	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Chlorobenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Chloroethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Chloroform	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Chloromethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
cis-1,2-Dichloroethene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
cis-1,3-Dichloropropene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Dibromochloromethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Dibromomethane	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Dichlorofluoromethane	ug/kg	< 6 U	< 5 U	< 8 UJ	< 5 UJ	< 7 UJ
Diethyl ether (Ethyl ether)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Ethylbenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Hexachloro-1,3-Butadiene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Isopropylbenzene (Cumene)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Methylene Chloride (Dichloromethane)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Methyl-tert-butyl ether	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
n-Butylbenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
n-Propylbenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
p-Isopropyltoluene (Cymene)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Styrene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Tert-Butylbenzene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Tetrachloroethene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Tetrahydrofuran	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Toluene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
trans-1,2-Dichloroethene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
trans-1,3-Dichloropropene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Trichloroethene	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Vinyl Chloride	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U
Xylene (Total)	ug/kg	< 6 U	< 5 U	< 8 U	< 5 U	< 7 U

Appendix F - Analytical Data Tables
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

% = percent

< = less than the limit of quantitation

B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)

ft = feet

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

mg/kg = milligrams per kilogram

NA = not analyzed

PAH = polycyclic aromatic hydrocarbons

R = The sample results are rejected

U = Compound was not detected

UB = Compound considered non-detect at the listed value due to associated blank contamination.

ug/kg = micrograms per kilogram

UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

VOCs = volatile organic compounds

ARCADIS

DARSP Sediment Sampling Data Tables

Appendix F - Analytical Data Tables
Background Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
Chemical	**Units**						
Grain Size							
Sieve 3 inch, % passing	% passing	100	100	100	100	100	100
Sieve 1.5 inch, % passing	% passing	100	100	100	100	100	100
Sieve 0.75 inch, % passing	% passing	100	96.1	100	96.5	100	100
Sieve, 4750 micron, % passing	% passing	94.1	94.4	98.6	87.6	99.6	100
Sieve, 3350 micron, % passing	% passing	91.8	94.0	98.0	85.8	99.4	99.9
Sieve, 2360 micron, % passing	% passing	88.6	93.5	97.6	84.1	99.1	99.9
Sieve, 1180 micron, % passing	% passing	85.4	93.1	97.1	81.9	98.7	99.6
Sieve, 600 micron, % passing	% passing	81.7	92.1	95.6	79.6	96.5	99.6
Sieve, 300 micron, % passing	% passing	77.5	90.7	94.1	73.4	94.5	99.5
Sieve, 150 micron, % passing	% passing	70.1	87.0	87.0	66.4	92.6	99.4
Sieve, 75 micron, % passing	% passing	60.7	82.2	80.0	55.2	89.7	98.9
Sieve, 64 micron, % passing	% passing	57.0	79.5	77.0	52.5	87.0	96.0
Sieve, 50 micron, % passing	% passing	49.5	76.0	71.0	48.0	80.5	90.0
Sieve, 20 micron, % passing	% passing	30.5	59.0	51.0	35.0	57.0	75.0
Sieve, 5 micron, % passing	% passing	17.0	39.0	29.0	11.0	33.0	57.5
Sieve, 2 micron, % passing	% passing	12.0	33.0	22.0	8.0	23.0	50.0
Sieve, 1 micron, % passing	% passing	10.0	31.0	17.0	6.0	18.0	47.0
Metals							
Arsenic	mg/kg	39.8 J	7.34 J	9.94 J	5.41	5.79	7.94
Barium	mg/kg	76.1	68.8	83.4	120	75.4	384
Cadmium	mg/kg	0.318 J	< 0.608 U	< 0.662 U	0.105 J	< 0.610 U	< 0.561 U
Chromium	mg/kg	20.6 J	26.7 J	19.3 J	15.5 J	22.4 J	34.8 J
Lead	mg/kg	59.5	21.4	23.1	16.0	29.7	15.6
Mercury	mg/kg	0.0605 J	< 0.122 U	0.0269 J	0.0381 J	0.0234 J	0.0107 J
Nickel	mg/kg	14.0	12.5	12.0	14.6	6.58	52.8
Selenium	mg/kg	< 2.61 U	< 2.43 U	< 2.65 U	1.05 J	1.23 J	1.81 J
Silver	mg/kg	< 0.652 U	< 0.608 U	< 0.662 U	0.259 J	< 0.610 U	0.269 J
Vanadium	mg/kg	29.6 J	33.4 J	29.0 J	20.5	45.2	47.6
Other							
Black Carbon	%	1.22	< 0.2 U	0.22 J	< 0.18 U	< 0.25 U	< 0.16 U
Percent Moisture	%	25.6	20.1	26.7	27.1	19.6	11.7
Total Organic Carbon	%	4.27	0.69	1.45	1.94	0.42	0.31 J
Priority PAHs							
1-Methylnaphthalene	ug/kg	11.6	3.07	3.56	6.94	1.72	1.21
2-Methylnaphthalene	ug/kg	22.8	5.47	5.92	13.9	3.64	2.41
Acenaphthene	ug/kg	3.64	0.300	0.576	27.1	1.12	< 0.1 U
Acenaphthylene	ug/kg	259	1.68	4.26	34.8	2.14	0.376
Anthracene	ug/kg	264	1.70	6.48	65.1	3.39	< 0.1 U
Benzo(a)Anthracene	ug/kg	272	2.22	6.08	687	80.0	0.185 J
Benzo(a)Pyrene	ug/kg	322	1.93	5.28	1448	65.6	0.153
Benzo(b)Fluoranthene	ug/kg	861	16.2	48.1	4056	< 0.2 U	0.682
Benzo(g,h,i)Perylene	ug/kg	316	4.64	16.2	2121	55.0	0.316
Benzo(j)+(k)Fluoranthene	ug/kg	201	5.88	15.0	1409	215	0.243
Chrysene/Triphenylene	ug/kg	405	6.67	20.3	2601	135	0.438
Dibenz(a,h)Anthracene	ug/kg	113	1.67	4.66	441	19.6	0.100
Fluoranthene	ug/kg	398	14.4	26.4	2671	191	1.65
Fluorene	ug/kg	18.0	2.47	4.34	41.2	4.70	3.85
Indeno[1,2,3-cd]pyrene	ug/kg	313	4.63	13.7	1878	61.5	0.321
Naphthalene	ug/kg	25.0	5.77	7.86	39.8	4.36	2.13
Phenanthrene	ug/kg	111	10.6	18.1	966	63.2	9.05
Pyrene	ug/kg	481	7.14	13.3	2201	149	0.585
Forensic PAHs							
Benzo(e)Pyrene	ug/kg	423	8.10	22.6	1899	94.1	0.362
C1-Chrysenes	ug/kg	292	3.98	8.79	527	28.7	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	307	4.45	8.91	705	66.5	0.931
C1-Fluorenes	ug/kg	< 1.8 U	< 0.4 U	2.54	15.0	0.973	0.189 J
C1-Phenanthrenes/Anthracenes	ug/kg	115	8.54	12.0	219	22.0	4.66
C2-Chrysenes	ug/kg	140	3.84	6.83	225	9.36	< 0.2 U
C2-Fluorenes	ug/kg	< 1.8 U	< 0.4 U	< 0.4 U	30.1	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	34.5	10.8	17.2	15.8	4.57	4.23
C2-Phenanthrenes/Anthracenes	ug/kg	109	10.3	12.1	128	15.3	< 0.3 U
C3-Chrysenes	ug/kg	82.2	< 0.2 U	< 0.2 U	107	2.84	< 0.2 U
C3-Fluorenes	ug/kg	< 1.8 U	< 0.4 U	< 0.4 U	38.5	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	26.6	7.31	16.8	12.2	2.63	3.10
C3-Phenanthrenes/Anthracenes	ug/kg	86.6	6.11	< 0.3 U	94.4	7.81	< 0.3 U
C4-Chrysenes	ug/kg	< 1.2 U	< 0.2 U	< 0.2 U	50.1	< 0.2 U	< 0.2 U

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
Chemical	**Units**						
C4-Naphthalenes	ug/kg	19.5	3.24	< 0.7 U	9.70	2.64	3.50
C4-Phenanthrenes/Anthracenes	ug/kg	68.7	< 0.3 U	< 0.3 U	64.3	3.44	< 0.3 U
Perylene	ug/kg	69.8	0.452 J	R	254	8.40 J	< 1.27 UBJ
Phenanthrene, 2-methyl-	ug/kg	32.8	3.17	4.80	111 J	7.56 J	0.875 J
1,1-Biphenyl	ug/kg	19.6	2.94	5.95	8.57	1.49	0.983
18a-Oleanane	ug/kg	< 2.9 U	< 0.6 U	14.1	< 5.7 U	< 0.6 U	< 0.6 U
1-Methyldibenzothiophene(1MDT)	ug/kg	1.64	0.225	0.364	2.96	0.318	0.176
1-Methylfluorene	ug/kg	< 1 U	< 0.2 U	3.55	4.21	0.492	0.351
1-Methylphenanthrene	ug/kg	16.7	1.50	1.99	57.3	4.77	0.524
2,3,5-Trimethylnaphthalene	ug/kg	3.64	1.17	1.77	2.35	0.420	0.640
2/3-Methyldibenzothiophene(2MDT)	ug/kg	3.37	0.841	0.586	9.72	0.808	0.312
2-Methylanthracene	ug/kg	63.6	4.58	5.28	12.5	3.28	2.72
2-Methylfluoranthene	ug/kg	82.0	1.04	1.91	171	10.2	0.054 J
3,6-Dimethylphenanthrene	ug/kg	6.51	< 0.1 U	0.173	15.4	1.08	< 0.1 U
3-Methylphenanthrene (3MP)	ug/kg	22.9	2.00	3.03	95.9	6.14	0.695
4-Methyldibenzothiophene(4MDT)	ug/kg	5.80	0.669	0.823	9.32	0.975	0.659
9/4-Methylphenanthrene (9MP)	ug/kg	39.5	1.84	3.24	59.1	3.85	0.602
Benzo(a)Fluoranthene	ug/kg	154	1.72	5.58	154	82.9	< 0.1 U
Benzo(b)fluorene	ug/kg	24.6	0.34	0.786	158	21.0	0.082 J
Benzothiophene	ug/kg	1.19	< 0.1 U	< 0.1 U	< 0.9 U	0.224	< 0.1 U
C1-Benzo(b)thiophenes	ug/kg	< 0.9 U	< 0.2 U	< 0.2 U	< 1.8 U	< 0.2 U	< 0.2 U
C1-Decalins	ug/kg	< 1.3 U	< 0.3 U	< 0.3 U	< 2.6 U	1.65	< 0.3 U
C1-Dibenzothiophenes	ug/kg	8.51	1.37	1.40	17.3	1.66	0.903
C1-Naphthalenes	ug/kg	23.3	5.76	6.38	14.1	3.39	2.29
C1-Naphthobenzothiophenes	ug/kg	77.8	5.93	< 0.3 U	159	8.81	< 0.3 U
C20-TAS	ug/kg	< 2.9 U	< 0.6 U	< 0.6 U	< 5.7 U	< 0.6 U	< 0.6 U
C21-TAS	ug/kg	< 2.9 U	< 0.6 U	< 0.6 U	< 5.7 U	< 0.6 U	< 0.6 U
C26(20R)/C27(20S)-TAS	ug/kg	< 2.9 U	< 0.6 U	< 0.6 U	< 5.7 U	< 0.6 U	< 0.6 U
C26(20S)-TAS	ug/kg	< 2.9 U	< 0.6 U	< 0.6 U	< 5.7 U	< 0.6 U	< 0.6 U
C27(20R)-TAS	ug/kg	< 2.9 U	< 0.6 U	< 0.6 U	< 5.7 U	< 0.6 U	< 0.6 U
C28(20R)-TAS	ug/kg	< 2.9 U	< 0.6 U	< 0.6 U	< 5.7 U	< 0.6 U	< 0.6 U
C28(20S)-TAS	ug/kg	< 2.9 U	< 0.6 U	< 0.6 U	< 5.7 U	< 0.6 U	< 0.6 U
C29-Hopane	ug/kg	< 2.9 U	< 0.6 U	52.6	57.0	4.75	< 0.6 U
C2-Benzo(b)thiophenes	ug/kg	< 0.9 U	< 0.2 U	< 0.2 U	< 1.8 U	< 0.2 U	< 0.2 U
C2-Decalins	ug/kg	< 1.3 U	< 0.3 U	< 0.3 U	< 2.6 U	< 0.3 U	< 0.3 U
C2-Dibenzothiophenes	ug/kg	15.0	1.50	< 0.2 U	21.9	1.60	0.870
C2-Fluoranthenes/Pyrenes	ug/kg	321	9.19	20.5	1011	59.9	0.442 J
C2-Naphthobenzothiophenes	ug/kg	64.1	3.41	< 0.3 U	122	4.50	< 0.3 U
C30-Hopane	ug/kg	< 2.9 U	< 0.6 U	71.7	62.4	4.91	< 0.6 U
C3-Benzo(b)thiophenes	ug/kg	< 0.9 U	< 0.2 U	< 0.2 U	< 1.8 U	< 0.2 U	< 0.2 U
C3-Decalins	ug/kg	< 1.3 U	< 0.3 U	< 0.3 U	< 2.6 U	< 0.3 U	< 0.3 U
C3-Dibenzothiophenes	ug/kg	21.3	< 0.2 U	< 0.2 U	30.6	1.29	0.308
C3-Fluoranthenes/Pyrenes	ug/kg	208	3.75	7.88	302	13.4	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	69.5	3.02	< 0.3 U	99.8	2.75	< 0.3 U
C4-Benzo(b)thiophenes	ug/kg	< 0.9 U	< 0.2 U	< 0.2 U	< 1.8 U	< 0.2 U	< 0.2 U
C4-Decalins	ug/kg	< 1.3 U	< 0.3 U	< 0.3 U	< 2.6 U	< 0.3 U	< 0.3 U
C4-Dibenzothiophenes	ug/kg	20.7	< 0.2 U	< 0.2 U	21.1	0.615	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	158	< 0.5 U	< 0.5 U	175	18.7	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	36.3	< 0.3 U	< 0.3 U	29.4	< 0.3 U	< 0.3 U
Carbazole	ug/kg	45.9	0.982	3.63	176	13.7	0.19
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	< 0.7 U	< 0.1 U	< 0.1 U	< 1.3 U	3.72	< 0.1 U
Dibenzofuran	ug/kg	16.0	3.62	6.14	38.0	3.52	2.75
Dibenzothiophene	ug/kg	11.3	0.937	1.74	40.2	3.31	1.11
Naphthalene, 2,6-dimethyl-	ug/kg	12.4	3.59	3.68	5.82	2.51	2.38
Naphthobenzothiophene	ug/kg	85.7	2.89	< 0.1 U	390	27.5	< 0.1 U
Retene	ug/kg	15.5	< 0.2 U	< 0.2 U	4.30	0.468	< 0.2 U
TPH							
EOM (Extracted Organic Material)	mg/kg	4915	279	641	1074	104	36 J
i-C15	mg/kg	0.009 J	0.007 J	0.030	0.008 J	0.009 J	0.010 J
i-C16	mg/kg	0.031	0.023	0.023	0.006	0.008	0.003 J
i-C18	mg/kg	0.009	0.010	0.022	0.009	0.007	0.009
n-C10 (n-Decane)	mg/kg	0.016 J	0.008 J	< 0.021 U	0.019 J	< 0.021 U	< 0.021 U
n-C11 (n-Undecane)	mg/kg	0.021	0.014 J	< 0.016 U	0.023	0.006 J	0.006 J
n-C12 (n-Dodecane)	mg/kg	0.035	0.027	0.024	0.019	0.024	0.023
n-C13 (n-Tridecane)	mg/kg	0.029 J	0.016 J	0.010 J	0.014 J	0.017 J	0.021 J
n-C14 (n-Tetradecane)	mg/kg	0.037	0.033	0.032	0.017	0.029	0.041
n-C15 (Pentadecane)	mg/kg	0.020	0.034	0.228	0.071	0.023	0.030

Appendix F - Analytical Data Tables
Background Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
Chemical	**Units**						
n-C16 (n-Hexadecane)	mg/kg	0.027	0.024	0.071	0.021	0.032	0.048
n-C17 (Heptadecane)	mg/kg	0.029	0.015	0.017	0.072	0.045	0.020
n-C18 (Octadecane)	mg/kg	0.051	0.011	0.072	0.269	0.047	0.041
n-C19 (Nonadecane)	mg/kg	0.048	0.028	0.051	0.013	0.032	0.014
n-C20 (Eicosane)	mg/kg	0.035	0.017	0.014	0.009 J	0.008 J	0.009 J
n-C21 (Heneicosane)	mg/kg	0.090	0.016	0.040	0.234	0.021	0.013
n-C22 (Docosane)	mg/kg	0.076	0.037	0.136	0.044	0.012	0.010
n-C23 (Tricosane)	mg/kg	0.122	0.022	0.083	0.191	0.029	0.017
n-C24 (Tetracosane)	mg/kg	0.030	0.019	0.029	0.063	0.020	0.013
n-C25 (Pentacosane)	mg/kg	0.176	0.055	0.110	0.367	0.045	0.030
n-C26 (Hexacosane)	mg/kg	0.046	0.031	0.027	0.189	0.029	0.014
n-C27 (Heptacosane)	mg/kg	0.252	0.133	0.225	0.493	0.085	0.049
n-C28 (Octacosane)	mg/kg	0.138	0.053	0.024	0.258	0.040	0.008 J
n-C29 (Nonacosane)	mg/kg	2.624	0.344	0.312	0.874	0.180	0.048
n-C30 (n-Triacontane)	mg/kg	0.311	0.089	0.169	0.155	0.025	0.007 J
n-C31 (Hentriacontane)	mg/kg	2.303	0.650	1.364	1.229	0.177	0.042
n-C32 (Dotriacontane)	mg/kg	0.238	0.073	0.147	0.129	0.007 J	0.005 J
n-C33	mg/kg	1.090	0.342	0.601	1.130	0.120	0.034
n-C34 (Tetratriacontane)	mg/kg	0.107	0.019	0.085	0.112	0.004 J	0.001 J
n-C35	mg/kg	0.198	0.089	0.132	0.542	0.113	0.030
n-C36 (Hexatriacontane)	mg/kg	0.094	0.007 J	0.052	0.096	0.002 J	< 0.016 U
n-C37	mg/kg	0.093	0.046	0.054	0.261	0.069	< 0.017 U
n-C38 (Octatriacontane)	mg/kg	0.098	< 0.019 U	0.043	0.070	< 0.019 U	< 0.019 U
n-C39 (Nonatriacontane)	mg/kg	0.045	< 0.019 U	< 0.019 U	0.177	< 0.019 U	< 0.019 U
n-C40 (Tetracontane)	mg/kg	0.122	< 0.019 U	< 0.019 U	0.142	< 0.019 U	< 0.019 U
n-C9 (Nonane)	mg/kg	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.004 J	0.005 J	0.009	0.047	0.004 J	0.009
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.035	0.006	0.025	0.103	0.009	0.020
Total Alkanes	mg/kg	8.7	2.3	4.3	7.5	1.3	0.6
Total Petroleum Hydrocarbons	mg/kg	454	147	214	313	62	15
Total Resolveable Hydrocarbons	mg/kg	77	30	90	106	17	12
Unresolved Complex Mixture	mg/kg	377	117	124	207	45	3
VOCs							
1,1,1,2-Tetrachloroethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 13 U	< 13 U	< 12 U	< 13 U	< 12 U	< 12 U
1,1-Dichloroethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1-Dichloroethene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,1-Dichloropropene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dichloroethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,2-Dichloropropane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,3-Dichloropropane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
2,2-Dichloropropane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
2-Butanone (MEK)	ug/kg	5 J	< 13 U	6 J	12 J	6 J	< 12 U
2-Chlorotoluene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
2-Phenylbutane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
4-Chlorotoluene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 13 U	< 13 U	< 12 U	< 13 U	< 12 U	< 12 U
Acetone	ug/kg	69	66	77	120	83	71
Allyl chloride	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Benzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromobenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromochloromethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromodichloromethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
Chemical	**Units**						
Bromomethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Carbon Tetrachloride	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Chlorobenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Chloroethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Chloroform	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Chloromethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Dibromochloromethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Dibromomethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Dichlorofluoromethane	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Ethylbenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
n-Butylbenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
n-Propylbenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Styrene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Tert-Butylbenzene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Tetrachloroethene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Tetrahydrofuran	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Toluene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Trichloroethene	ug/kg	< 6 U	2 J	< 6 U	< 7 U	< 6 UB	< 6 UB
Trichlorofluoromethane (CFC-11)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Vinyl Chloride	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U
Xylene (Total)	ug/kg	< 6 U	< 7 U	< 6 U	< 7 U	< 6 U	< 6 U

Notes:
% = percent
< = less than the limit of quantitation
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
ug/kg = micrograms per kilogram
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
VOCs = volatile organic compounds

Appendix F - Analytical Data Tables
Background Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
Chemical	**Units**							
Grain Size								
Sieve 3 inch, % passing	% passing	100	100	100	NA	100	100	100
Sieve 1.5 inch, % passing	% passing	100	100	100	NA	100	100	100
Sieve 0.75 inch, % passing	% passing	100	100	100	NA	100	100	100
Sieve, 4750 micron, % passing	% passing	100	100	100	NA	100	100	100
Sieve, 3350 micron, % passing	% passing	100	99.7	100	NA	99.7	100	100
Sieve, 2360 micron, % passing	% passing	100	99.4	99.8	NA	99.2	99.9	100
Sieve, 1180 micron, % passing	% passing	96.8	98.0	99.5	NA	99.0	99.6	99.9
Sieve, 600 micron, % passing	% passing	89.8	92.5	99.3	NA	98.9	99.2	99.1
Sieve, 300 micron, % passing	% passing	86.7	87.1	98.7	NA	98.8	98.7	97.4
Sieve, 150 micron, % passing	% passing	84.4	83.2	97.7	NA	98.4	92.9	93.6
Sieve, 75 micron, % passing	% passing	82.1	80.4	92.7	NA	97.6	71.4	88.1
Sieve, 64 micron, % passing	% passing	79.0	77.0	85.0	NA	88.0	69.0	85.0
Sieve, 50 micron, % passing	% passing	70.0	68.0	67.0	NA	69.5	67.0	80.0
Sieve, 20 micron, % passing	% passing	49.5	49.0	36.0	NA	32.5	56.0	66.0
Sieve, 5 micron, % passing	% passing	17.0	27.0	16.0	NA	17.0	32.0	28.0
Sieve, 2 micron, % passing	% passing	9.0	19.0	9.5	NA	12.0	18.0	13.0
Sieve, 1 micron, % passing	% passing	4.0	15.0	3.5	NA	8.0	5.0	4.0
Metals								
Arsenic	mg/kg	6.98	5.17	3.60	2.73 J	4.64	3.91	7.18 J
Barium	mg/kg	139	174	90.8	75.9	157	143	113
Cadmium	mg/kg	0.479 J	0.339 J	0.250 J	0.133 J	0.662 J	0.389 J	0.375 J
Chromium	mg/kg	25.3 J	33.8 J	18.0 J	15.0 J	103 J	38.0 J	38.5 J
Lead	mg/kg	34.2	35.8	18.0	13.5	55.5	31.8	31.2
Mercury	mg/kg	0.0663 J	0.0933 J	0.0551 J	0.0430 J	0.204	0.154 J	0.172 J
Nickel	mg/kg	26.1	33.9	17.8	13.5	66.2	23.9	41.4
Selenium	mg/kg	< 4.41 U	< 3.95 U	< 3.59 U	< 2.84 U	< 3.04 U	< 3.37 U	< 4.19 U
Silver	mg/kg	< 1.10 U	< 0.986 U	< 0.898 U	< 0.710 U	0.961	0.679 J	1.33
Vanadium	mg/kg	40.0	46.2 J	23.4 J	19.6 J	31.4 J	26.5 J	19.0
Other								
Black Carbon	%	< 0.19 UJ	0.22 J	< 0.17 UJ	< 0.19 UJ	< 0.2 UJ	< 0.18 UJ	< 0.2 U
Percent Moisture	%	55.1	50.3	44.3	31.6	35.4	41.8	52.7
Total Organic Carbon	%	3.18	4.18	1.86	1.92	2.10	2.37	3.94
Priority PAHs								
1-Methylnaphthalene	ug/kg	4.12	4.62	2.61	2.62	5.55	5.54	6.92
2-Methylnaphthalene	ug/kg	9.72	12.7	6.89	6.82	15.1	13.8	19.1
Acenaphthene	ug/kg	3.229	2.27	1.55	1.61	2.49	2.58	3.84
Acenaphthylene	ug/kg	19.2	5.09	2.88	3.18	6.13	7.54	12.0
Anthracene	ug/kg	30.3	10.7 J	6.99	7.32	13.8	15.5	24.7
Benzo(a)Anthracene	ug/kg	49.0	12.7	9.46	10.2	26.6	32.9	49.6
Benzo(a)Pyrene	ug/kg	35.8	10.9	5.27	6.84	32.7	44.2	57.9
Benzo(b)Fluoranthene	ug/kg	101	44.2	21.3	26.3	94.5	138	169
Benzo(g,h,i)Perylene	ug/kg	31.8	15.1	5.84	7.14	30.1	42.3	74.2
Benzo(j)+(k)Fluoranthene	ug/kg	37.2	14.3	4.78	6.08	31.1	30.8	40.9
Chrysene/Triphenylene	ug/kg	64.0	28.1	16.7	17.6	58.6	78.9	109
Dibenz(a,h)Anthracene	ug/kg	9.5	5.99	2.40	2.89	8.96	10.9	2.04
Fluoranthene	ug/kg	88.1	46.7	28.8	28.5	103	152	200
Fluorene	ug/kg	21.3	20.2	10.3	10.2	18.5	20.1	19.5
Indeno[1,2,3-cd]pyrene	ug/kg	31.5	12.0	5.20	6.43	27.4	41.0	6.46
Naphthalene	ug/kg	10.5	10.4	6.10	6.08	10.7	10.9	15.3
Phenanthrene	ug/kg	56.3	51.7	29.8	33.7	77.9	106	63.0
Pyrene	ug/kg	77.0	30.3	24.5	24.9	64.0	81.7	192
Forensic PAHs								
Benzo(e)Pyrene	ug/kg	51.7	19.3	9.60	11.8	51.8	70.4	78.6
C1-Chrysenes	ug/kg	35.7	37.6	27.1	24.2	45.3	50.8	147
C1-Fluoranthenes/Pyrenes	ug/kg	50.6	31.3	19.0	18.8	67.9	63.9	175
C1-Fluorenes	ug/kg	8.14	10.7	5.51	6.04	14.1	14.4	24.2
C1-Phenanthrenes/Anthracenes	ug/kg	27.7	23.1	17.0	17.6	46.0	57.3	77.3
C2-Chrysenes	ug/kg	19.7	18.5	10.5	9.20	33.9	29.7	80.9
C2-Fluorenes	ug/kg	21.4	30.8	13.6	16.7	31.5	34.7	69.3
C2-Naphthalenes	ug/kg	17.0	< 0.7 U	9.95	10.7	25.3	23.8	47.9
C2-Phenanthrenes/Anthracenes	ug/kg	33.5	27.6	21.0	23.8	73.9	82.7	154
C3-Chrysenes	ug/kg	11.4	16.8	7.09	5.24	22.4	17.4	43.6
C3-Fluorenes	ug/kg	< 0.4 U	31.6	14.6	10.9	57.4	52.8	161
C3-Naphthalenes	ug/kg	40.6	< 0.7 U	16.2	18.2	27.9	28.0	58.4
C3-Phenanthrenes/Anthracenes	ug/kg	32.8	26.4	22.6	22.8	103	93.6	270
C4-Chrysenes	ug/kg	8.45	15.7	< 0.2 U	< 0.2 U	12.5	< 0.2 U	20.5

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
Chemical	**Units**							
C4-Naphthalenes	ug/kg	23.0	< 0.7 U	11.5	13.3	35.3	41.8	88.8
C4-Phenanthrenes/Anthracenes	ug/kg	25.3	25.5	22.7 J	< 0.3 UJ	89.4	< 0.3 U	310
Perylene	ug/kg	621 EJ	753	292	316	256	54.8	298
Phenanthrene, 2-methyl-	ug/kg	6.67 J	9.26	4.51 J	4.76 J	16.0 J	18.8 J	31.2
1,1-Biphenyl	ug/kg	4.16	4.47	2.88	2.76	7.55	7.38	7.68
18a-Oleanane	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
1-Methyldibenzothiophene(1MDT)	ug/kg	0.826	0.952	0.487	0.413	4.05	8.07	7.84
1-Methylfluorene	ug/kg	4.72	4.71	2.37	2.31	7.39	8.19	8.79
1-Methylphenanthrene	ug/kg	4.80	3.55	3.34	3.39	7.08	10.2	19.9
2,3,5-Trimethylnaphthalene	ug/kg	3.38	2.08	1.71	1.57	4.46	4.17	5.18
2/3-Methyldibenzothiophene(2MDT)	ug/kg	1.61	2.87	1.41	1.29	8.40	11.4	14.3
2-Methylanthracene	ug/kg	7.31	5.87	4.26	4.26	6.01	6.02	14.7
2-Methylfluoranthene	ug/kg	9.66	4.49	2.64	2.79	6.61	8.37	15.9
3,6-Dimethylphenanthrene	ug/kg	1.83	2.62	1.38	1.62	5.98	8.94	23.8
3-Methylphenanthrene (3MP)	ug/kg	7.39	6.95	4.54	4.95	13.5	18.1	28.8
4-Methyldibenzothiophene(4MDT)	ug/kg	2.39	3.49	1.63	1.73	11.7	24.1	19.6
9/4-Methylphenanthrene (9MP)	ug/kg	6.01	6.60	3.13	3.09	10.8	13.4	23.9
Benzo(a)Fluoranthene	ug/kg	14.1	7.33	5.04	5.17	9.30	11.3	16.9
Benzo(b)fluorene	ug/kg	14.1	9.36	5.39	5.59	13.9	14.8	37.1
Benzothiophene	ug/kg	0.67	0.696	0.455	0.542	1.65	1.65	0.848
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C1-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C1-Dibenzothiophenes	ug/kg	3.8	6.42	2.78	2.71	19.0	34.4	32.8
C1-Naphthalenes	ug/kg	8.8	10.4	6.03	5.99	13.1	12.3	17.7
C1-Naphthobenzothiophenes	ug/kg	14.1	15.5	8.66	9.11	45.8	50.6	72.8
C20-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C21-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C26(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C27(20R)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C28(20R)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C28(20S)-TAS	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C29-Hopane	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C2-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C2-Dibenzothiophenes	ug/kg	6.64	13.7	5.23	5.43	40.6	50.6	105
C2-Fluoranthenes/Pyrenes	ug/kg	53.1	36.5	26.7	25.0	98.6	116	216
C2-Naphthobenzothiophenes	ug/kg	16.1	26.1	11.0	10.4	65.6	62.2	110
C30-Hopane	ug/kg	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C3-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C3-Dibenzothiophenes	ug/kg	8.65	16.9	7.29	7.59	74.8	68.6	223
C3-Fluoranthenes/Pyrenes	ug/kg	24.5	23.3	10.8	9.08	34.5	37.5	81.7
C3-Naphthobenzothiophenes	ug/kg	14.3	25.8	12.5	15.3	63.1	39.1	87.5
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Decalins	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C4-Dibenzothiophenes	ug/kg	11.4	17.8	7.24	8.49	78.3	60.8	226
C4-Fluoranthenes/Pyrenes	ug/kg	23.7	30.0	15.5	16.9	35.0	36.1	88.7
C4-Naphthobenzothiophenes	ug/kg	7.97	12.9	6.62	6.40	30.3	18.8	54.7
Carbazole	ug/kg	6.75	5.82	3.46	3.43	5.14	7.27	7.70
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	14.5	10.4	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Dibenzofuran	ug/kg	11.7	11.4	5.76	6.07	10.6	13.3	9.44
Dibenzothiophene	ug/kg	5.4	8.29	2.81	2.86	11.4	17.9	15.3
Naphthalene, 2,6-dimethyl-	ug/kg	8.55	13.1	5.35	5.72	16.1	13.3	28.7
Naphthobenzothiophene	ug/kg	18.6	11.1	8.06	9.05	24.5	32.1	40.6
Retene	ug/kg	9.98	11.1	< 0.2 U	< 0.2 U	15.3	< 0.2 U	319
TPH								
EOM (Extracted Organic Material)	mg/kg	1660	2311	799	837	1813	1930	2630
i-C15	mg/kg	0.017	0.019	0.010 J	0.011 J	0.029	0.022	0.021
i-C16	mg/kg	0.044	0.071	0.007 J	0.046 J	0.024	0.010	0.120
i-C18	mg/kg	0.030	0.035	0.013	0.020	0.085	0.078	0.158
n-C10 (n-Decane)	mg/kg	< 0.021 U	0.024	0.009 J	0.011 J	0.025	0.021 J	0.018 J
n-C11 (n-Undecane)	mg/kg	0.017	0.033	0.016 J	0.016 J	0.030	0.027	0.018
n-C12 (n-Dodecane)	mg/kg	0.087	0.058	0.052	0.056	0.077	0.110	0.027
n-C13 (n-Tridecane)	mg/kg	0.043 J	0.057	0.018 J	0.020 J	0.050	0.054	0.012 J
n-C14 (n-Tetradecane)	mg/kg	0.094	0.111	0.037	0.036	0.069	0.073	0.033
n-C15 (Pentadecane)	mg/kg	0.262	0.448	0.109	0.112	0.178	0.212	0.079

Appendix F - Analytical Data Tables
Background Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
Chemical	**Units**							
n-C16 (n-Hexadecane)	mg/kg	0.206	0.223	0.085	0.090	0.159	0.205	0.035
n-C17 (Heptadecane)	mg/kg	0.630	0.859	0.226	0.221	0.330	0.512	0.195
n-C18 (Octadecane)	mg/kg	0.710	0.821	0.347	0.340	0.511	0.623	0.506
n-C19 (Nonadecane)	mg/kg	0.900	1.18	0.349	0.389	0.465	0.358	0.304
n-C20 (Eicosane)	mg/kg	0.280	0.382	0.099	0.098	0.111	0.113	0.100
n-C21 (Heneicosane)	mg/kg	2.501	1.95	1.071	0.805	0.770	0.878	0.729
n-C22 (Docosane)	mg/kg	0.242	0.283	0.103	0.095	0.109	0.144	0.098
n-C23 (Tricosane)	mg/kg	1.492	1.97	0.833	0.744	0.360	0.419	1.103
n-C24 (Tetracosane)	mg/kg	0.428	0.517	0.318	0.310	0.157	0.202	1.023
n-C25 (Pentacosane)	mg/kg	1.453	2.51	0.831	0.750	0.721	0.692	0.628
n-C26 (Hexacosane)	mg/kg	0.421	0.629	0.186	0.173	0.192	0.236	0.234
n-C27 (Heptacosane)	mg/kg	2.912	4.45	1.597	1.477	1.512	1.725	2.103
n-C28 (Octacosane)	mg/kg	0.862	1.16	0.314	0.419	0.558	0.619	0.562
n-C29 (Nonacosane)	mg/kg	4.426	4.93	2.964	2.959	3.522	1.556	6.049
n-C30 (n-Triacontane)	mg/kg	0.444	0.578	0.355	0.363	0.403	0.474	0.330
n-C31 (Hentriacontane)	mg/kg	3.698	3.99	2.019	1.783	3.137	1.687	4.927
n-C32 (Dotriacontane)	mg/kg	0.360	0.563	0.176	0.222	0.291	0.388	0.355
n-C33	mg/kg	1.833	2.82	1.177	1.092	1.991	1.817	3.471
n-C34 (Tetratriacontane)	mg/kg	0.079	0.207	0.112	0.072	0.074	0.226	0.496
n-C35	mg/kg	1.116	2.19	1.062	0.999	1.737	1.801	1.427
n-C36 (Hexatriacontane)	mg/kg	0.125	0.191	0.148	0.103	0.209	0.382	0.319
n-C37	mg/kg	1.011	2.14	0.889	0.820	0.974	1.553	0.771
n-C38 (Octatriacontane)	mg/kg	0.124	0.140	0.110	0.096	0.086	0.140	0.177
n-C39 (Nonatriacontane)	mg/kg	0.172	0.377	0.093	0.089	0.127	0.252	0.122
n-C40 (Tetracontane)	mg/kg	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.151	0.238	0.234
n-C9 (Nonane)	mg/kg	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.185	0.258	0.080	0.080	0.353	0.367	0.297
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.138	0.063	0.071 J	0.026 J	0.254	0.258	0.097
Total Alkanes	mg/kg	27.3	36.2	15.9	14.9	19.8	18.5	27.2
Total Petroleum Hydrocarbons	mg/kg	467	847	300	301	802	853	1051
Total Resolveable Hydrocarbons	mg/kg	218	315	140	140	165	196	239
Unresolved Complex Mixture	mg/kg	249	532	160	161	637	657	813
VOCs								
1,1,1,2-Tetrachloroethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,1,1-Trichloroethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,1,2,2-Tetrachloroethane	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,1,2-Trichloroethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 25 U	< 21 U	< 19 U	< 15 U	< 17 U	< 17 U	< 23 U
1,1-Dichloroethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,1-Dichloroethene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,1-Dichloropropene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2,3-Trichlorobenzene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2,3-Trichloropropane	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2,4-Trichlorobenzene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2,4-Trimethylbenzene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2-Dibromoethane (EDB)	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2-Dichlorobenzene	ug/kg	< 13 UJ	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2-Dichloroethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,2-Dichloropropane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,3,5-Trimethylbenzene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,3-Dichlorobenzene	ug/kg	< 13 UJ	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,3-Dichloropropane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
1,4-Dichlorobenzene	ug/kg	< 13 UJ	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
2,2-Dichloropropane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
2-Butanone (MEK)	ug/kg	17 J	< 21 U	< 19 U	< 15 U	< 17 U	< 17 U	< 23 U
2-Chlorotoluene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
2-Phenylbutane	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
4-Chlorotoluene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 25 U	< 21 U	< 19 U	< 15 U	< 17 U	< 17 U	< 23 U
Acetone	ug/kg	100	36 J	33 J	22 J	54	35	75
Allyl chloride	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Benzene	ug/kg	< 13 UJ	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Bromobenzene	ug/kg	< 13 U	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Bromochloromethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Bromodichloromethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Bromoform (Tribromomethane)	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
Chemical	**Units**							
Bromomethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Carbon Tetrachloride	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Chlorobenzene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Chloroethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Chloroform	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Chloromethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
cis-1,2-Dichloroethene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
cis-1,3-Dichloropropene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Dibromochloromethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Dibromomethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Dichlorofluoromethane	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Diethyl ether (Ethyl ether)	ug/kg	< 13 UJ	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Ethylbenzene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Hexachloro-1,3-Butadiene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Isopropylbenzene (Cumene)	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Methylene Chloride (Dichloromethane)	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Methyl-tert-butyl ether	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
n-Butylbenzene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
n-Propylbenzene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
p-Isopropyltoluene (Cymene)	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Styrene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Tert-Butylbenzene	ug/kg	< 13 UJ	< 11 UJ	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Tetrachloroethene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Tetrahydrofuran	ug/kg	< 13 UJ	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Toluene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
trans-1,2-Dichloroethene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
trans-1,3-Dichloropropene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Trichloroethene	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	9 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Vinyl Chloride	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U
Xylene (Total)	ug/kg	< 13 U	< 11 U	< 10 U	< 7 U	< 8 U	< 8 U	< 12 U

Notes:
% = percent
< = less than the limit of quantitation
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
TPH = total petroleum hydrocarbon
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
ug/kg = micrograms per kilogram
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
VOCs = volatile organic compounds

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	100	NA	100	NA	NA	100	NA	100	NA
Sieve 1.5 inch, % passing	% passing	100	NA	100	NA	100	NA	NA	100	NA	100	NA
Sieve 0.75 inch, % passing	% passing	100	NA	100	NA	100	NA	NA	84.2	NA	100	NA
Sieve, 4750 micron, % passing	% passing	98.9	NA	96.9	NA	98.9	NA	NA	68.3	NA	98.6	NA
Sieve, 3350 micron, % passing	% passing	98.3	NA	96.3	NA	98.3	NA	NA	64.3	NA	98.1	NA
Sieve, 2360 micron, % passing	% passing	97.7	NA	95.6	NA	97.0	NA	NA	59.7	NA	97.5	NA
Sieve, 1180 micron, % passing	% passing	96.3	NA	94.2	NA	96.0	NA	NA	53.3	NA	95.5	NA
Sieve, 600 micron, % passing	% passing	93.9	NA	92.0	NA	94.5	NA	NA	49.3	NA	93.4	NA
Sieve, 300 micron, % passing	% passing	91.9	NA	90.0	NA	93.1	NA	NA	45.4	NA	91.5	NA
Sieve, 150 micron, % passing	% passing	88.1	NA	84.4	NA	88.2	NA	NA	37.9	NA	84.3	NA
Sieve, 75 micron, % passing	% passing	81.2	NA	76.4	NA	82.3	NA	NA	32.3	NA	73.1	NA
Sieve, 64 micron, % passing	% passing	77.5	NA	73.0	NA	80.0	NA	NA	31.0	NA	70.0	NA
Sieve, 50 micron, % passing	% passing	71.0	NA	67.0	NA	73.0	NA	NA	27.0	NA	64.0	NA
Sieve, 20 micron, % passing	% passing	41.0	NA	47.0	NA	52.0	NA	NA	20.0	NA	43.0	NA
Sieve, 5 micron, % passing	% passing	17.0	NA	28.0	NA	31.5	NA	NA	9.5	NA	19.0	NA
Sieve, 2 micron, % passing	% passing	13.0	NA	23.0	NA	26.0	NA	NA	8.0	NA	14.0	NA
Sieve, 1 micron, % passing	% passing	10.5	NA	21.0	NA	27.0	NA	NA	6.0	NA	12.0	NA
Metals												
Arsenic	mg/kg	9.07 J	7.49 J	2.89 J	9.11 J	10.5 J	7.18 J	12.0 J	11.5 J	10.5 J	7.97	4.65
Barium	mg/kg	78.0	47.6	103	66.5	110	151	204	106	394	54.9	50.3
Cadmium	mg/kg	< 0.610 U	< 0.613 U	< 0.649 U	< 0.644 U	< 0.633 U	< 0.607 U	< 0.636 U	< 0.658 U	< 0.659 U	< 0.621 U	< 0.564 U
Chromium	mg/kg	20.2 J	12.7 J	50.8 J	23.7 J	21.0 J	25.3 J	29.0 J	21.2 J	30.0 J	23.1 J	13.7 J
Lead	mg/kg	16.3	9.40	23.4	19.8	10.5 J	21.8 J	23.4	18.7	16.5	14.1 J	10.8 J
Mercury	mg/kg	< 0.123 U	< 0.119 U	0.0231 J	0.0215 J	0.0159 J	0.0234 J	< 0.121 U	< 0.133 U	< 0.123 U	0.0363 J	0.0277 J
Nickel	mg/kg	15.3	8.91	18.8	11.8	13.3	19.6	25.3	20.4	42.8	10.7	10.0
Selenium	mg/kg	< 2.44 U	< 2.45 U	< 2.60 U	< 2.58 U	< 2.53 U	< 2.43 U	< 2.54 U	< 2.63 U	< 2.64 U	1.43 J	1.56 J
Silver	mg/kg	< 0.610 U	< 0.613 U	0.338 J	< 0.644 U	< 0.633 U	< 0.607 U	< 0.636 U	< 0.658 U	< 0.659 U	< 0.621 U	< 0.564 U
Vanadium	mg/kg	24.2 J	19.4 J	38.0 J	31.9 J	29.0 J	33.8 J	35.2 J	23.1 J	36.4 J	30.3 J	22.5 J
Other												
Black Carbon	%	< 0.2 U	NA	< 0.18 U	NA	< 0.2 U	< 0.19 U	NA	< 0.2 U	NA	< 0.2 U	NA
Percent Moisture	%	19.7	18.4	24.5	25.4	23.3	20.8	22.9	26.9	24.1	21.0	14.8
Total Organic Carbon	%	0.3	NA	0.49	NA	0.49	0.53	NA	1.35	NA	0.37	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	2.24	0.731	2.16	1.57	1.10 J	2.78 J	1.20	25.3	0.722	1.11	0.687
2-Methylnaphthalene	ug/kg	2.48	1.44	4.77	3.04	2.16 J	5.22 J	2.35	83.9	1.71	2.37	1.55
Acenaphthene	ug/kg	1.77	0.496	0.260	0.215	0.157 J	0.450 J	0.234	< 0.3 U	0.668	0.114	0.092 J
Acenaphthylene	ug/kg	1.75 J	0.589	2.36	1.64	0.821 J	2.59 J	0.915	10.3	0.324	0.246	0.063
Anthracene	ug/kg	6.79 J	0.646	3.51	2.21	1.322 J	3.63 J	1.69	16.1	0.329	0.480	< 0.1 U
Benzo(a)Anthracene	ug/kg	21.1 J	0.757	2.77	2.27	1.64 J	5.72 J	2.35	29.8	0.522	0.714	0.432
Benzo(a)Pyrene	ug/kg	16.4 J	0.382	2.47	2.56	1.21 J	4.93 J	1.18	47.9	0.377	0.596	0.410
Benzo(b)Fluoranthene	ug/kg	28.2	1.99	14.1	9.14	6.59 J	16.7 J	6.42	130	1.51	2.15	0.794
Benzo(g,h,i)Perylene	ug/kg	13.3 J	0.674	7.90	3.55	3.50 J	8.05 J	1.87	82.0	1.03	1.32	0.355
Benzo(j)+(k)Fluoranthene	ug/kg	10.7 J	0.691	3.94	2.84	1.95 J	5.49 J	2.14	29.5	0.472	0.891	0.323
Chrysene/Triphenylene	ug/kg	23.6 J	1.09	9.25	5.53	5.41 J	14.4 J	6.64	150	2.07	3.24	0.595
Dibenz(a,h)Anthracene	ug/kg	4.73	0.305	2.30	1.17	0.991 J	2.27 J	0.809	19.4	0.257	0.349	0.107
Fluoranthene	ug/kg	51.0	2.07	6.59	5.09	4.83 J	11.2 J	4.23	59.0	3.05	2.04	1.47
Fluorene	ug/kg	2.21	4.42	3.13	3.11	1.88 J	4.72 J	3.46	18.8	4.35	2.17	2.59
Indeno[1,2,3-cd]pyrene	ug/kg	12.9 J	0.686	6.98	3.34	2.76 J	5.79 J	1.95	33.0	0.543	0.646	0.319
Naphthalene	ug/kg	2.60	1.37	3.78	3.01	2.23 J	4.11 J	2.17	25.8	1.64	1.58	1.26
Phenanthrene	ug/kg	35.1	9.97	10.7	9.79	6.58 J	15.4 J	9.38	44.6	13.7	6.43	7.95
Pyrene	ug/kg	41.5	0.758	5.25	3.68	3.61 J	10.1 J	2.72	131	2.16	2.60	0.550
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	14.3 J	0.915	8.26	4.36	4.21 J	9.70 J	3.45	91.4	1.15	2.03	0.447
C1-Chrysenes	ug/kg	14.4	< 0.2 U	7.41	< 0.2 U	7.74 J	21.1 J	< 0.2 U	380	3.21	6.54	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	16.7	0.720	7.59	< 0.5 U	5.90 J	16.4 J	2.59	417	3.14	7.01	0.416 J
C1-Fluorenes	ug/kg	< 0.4 U	1.65	1.92	1.73	1.55 J	5.22 J	1.53	147	2.94	2.34	1.06
C1-Phenanthrenes/Anthracenes	ug/kg	21.2	5.06	10.8	6.91	8.52 J	20.1 J	6.13	311	9.22	15.0	4.14
C2-Chrysenes	ug/kg	7.49	< 0.2 U	11.5	< 0.2 U	9.31 J	29.5 J	< 0.2 U	486	4.11	9.11	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	7.24	< 0.4 U	< 0.4 UJ	20.0 J	< 0.4 U	478	8.26	12.5	< 0.4 U
C2-Naphthalenes	ug/kg	< 0.7 U	4.47	8.04	6.03	4.19 J	12.5 J	5.96	170	4.84	5.14	2.06
C2-Phenanthrenes/Anthracenes	ug/kg	16.0	< 0.3 U	13.8	6.00	14.7 J	46.9 J	5.91	1069	14.2	31.6	< 0.3 U
C3-Chrysenes	ug/kg	2.63	< 0.2 U	9.36	< 0.2 U	6.11 J	16.8 J	< 0.2 U	395	3.25	6.73	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	12.69	< 0.4 U	< 0.4 UJ	30.4 J	< 0.4 U	813	12.9	17.4	< 0.4 U
C3-Naphthalenes	ug/kg	< 0.7 U	5.89	7.04	5.25	4.79 J	16.8 J	5.61	371	10.5	8.78	1.18
C3-Phenanthrenes/Anthracenes	ug/kg	7.63	< 0.3 U	14.6	< 0.3 U	15.3 J	60.7 J	2.51	1708	14.8	37.8	< 0.3 U
C4-Chrysenes	ug/kg	1.43	< 0.2 U	5.26	< 0.2 U	3.64 J	11.1 J	< 0.2 U	175	< 0.2 U	3.64	< 0.2 U
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	8.66	< 0.7 U	5.41 J	23.6 J	3.87	908	11.0	14.8	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	4.92	< 0.3 U	11.8	< 0.3 U	16.2 J	53.6 J	< 0.3 U	1335	10.9	29.3	< 0.3 U
Perylene	ug/kg	4.18 J	0.076 J	0.767 J	0.604 J	0.449 J	1.64 J	0.246 J	38.8	0.149 J	0.242 J	< 1.3 UBJ
Phenanthrene, 2-methyl-	ug/kg	6.59	NA	3.00	NA	1.88 J	6.19 J	NA	98.4	NA	3.70 J	NA
1,1-Biphenyl	ug/kg	0.814	NA	1.86	NA	0.991 J	2.08 J	NA	14.6	NA	1.02	NA

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
Chemical	**Units**											
18a-Oleanane	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.303	NA	1.14	NA	0.891 J	4.48 J	NA	145	NA	4.28	NA
1-Methylfluorene	ug/kg	0.727	NA	1.41	NA	0.813 J	3.05 J	NA	67.9	NA	0.78	NA
1-Methylphenanthrene	ug/kg	4.11	NA	2.07	NA	1.25 J	4.08 J	NA	85.8	NA	3.40	NA
2,3,5-Trimethylnaphthalene	ug/kg	0.773	NA	0.882	NA	0.606 J	2.11 J	NA	48.9	NA	1.90	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.771	NA	1.61	NA	1.09 J	4.60 J	NA	141	NA	4.71	NA
2-Methylanthracene	ug/kg	6.97	NA	5.41	NA	5.24 J	5.42 J	NA	25.3	NA	2.87	NA
2-Methylfluoranthene	ug/kg	4.01	NA	0.841	NA	0.657 J	2.02 J	NA	29.2	NA	0.648	NA
3,6-Dimethylphenanthrene	ug/kg	1.10	NA	0.691	NA	0.648 J	2.64 J	NA	67.0	NA	1.64	NA
3-Methylphenanthrene (3MP)	ug/kg	5.90	NA	2.20	NA	1.54 J	4.72 J	NA	84.7	NA	3.27	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	0.920	NA	2.14	NA	1.57 J	6.74 J	NA	213	NA	6.67	NA
9/4-Methylphenanthrene (9MP)	ug/kg	5.10	NA	1.88	NA	1.61 J	6.71 J	NA	126	NA	4.24	NA
Benzo(a)Fluoranthene	ug/kg	3.50	NA	1.51	NA	0.450 J	1.66 J	NA	< 0.3 U	NA	< 0.1 U	NA
Benzo(b)fluorene	ug/kg	0.74	NA	0.410	NA	0.358 J	0.940 J	NA	26.4	NA	0.523	NA
Benzothiophene	ug/kg	0.216	NA	0.322	NA	0.297 J	0.579 J	NA	3.73	NA	0.143	NA
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	1.70	NA	< 0.2 UJ	1.84 J	NA	33.4	NA	0.704	NA
C1-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	< 0.3 U	< 0.3 U	NA	< 0.8 U	NA	< 0.3 U	NA
C1-Dibenzothiophenes	ug/kg	1.44	< 0.1 U	3.52	< 0.722 UB	2.56 J	11.4 J	< 0.687 UB	< 0.2 U	4.27	12.3	0.760
C1-Naphthalenes	ug/kg	3.04	1.44	4.50	3.07	2.11 J	5.19 J	2.36	71.0	1.62	2.20	1.45
C1-Naphthobenzothiophenes	ug/kg	4.88	NA	11.4	NA	10.4 J	34.5 J	NA	717	NA	13.8	NA
C20-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
C21-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
C26(20S)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
C27(20R)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
C28(20R)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
C28(20S)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	< 0.6 U	< 0.6 U	NA	< 1.7 U	NA	< 0.6 U	NA
C29-Hopane	ug/kg	6.97	NA	48.4	NA	28.2 J	71.6 J	NA	850	NA	31.7	NA
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	1.04	NA	< 0.2 UJ	2.63 J	NA	55.7	NA	1.28	NA
C2-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	< 0.3 U	< 0.3 U	NA	< 0.8 U	NA	< 0.3 U	NA
C2-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	8.00	< 1.09 UB	9.00 J	32.9 J	< 1.41 UB	1210	12.5	26.4	1.18
C2-Fluoranthenes/Pyrenes	ug/kg	17.1	< 0.5 U	10.9	< 0.5 U	8.39 J	28.3 J	4.28	584	4.24	11.9	0.495
C2-Naphthobenzothiophenes	ug/kg	4.91	NA	23.0	NA	18.7 J	62.0 J	NA	1049	NA	21.1	NA
C30-Hopane	ug/kg	9.26	NA	62.5	NA	38.5 J	88.9 J	NA	1036	NA	39.9	NA
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	< 0.2 U	NA	< 0.2 UJ	3.73 J	NA	155	NA	2.06	NA
C3-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	< 0.3 U	< 0.3 U	NA	< 0.8 U	NA	< 0.3 U	NA
C3-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	11.6	< 1.04 UB	11.9 J	46.6 J	< 1.56 UB	1826	15.7	40.6	1.17
C3-Fluoranthenes/Pyrenes	ug/kg	6.37	< 0.5 U	7.59	< 0.5 U	6.55 J	22.0 J	2.81	445	3.67	10.5	0.217 J
C3-Naphthobenzothiophenes	ug/kg	4.12	NA	25.5	NA	17.6 J	49.0 J	NA	881	NA	16.1	NA
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	< 0.2 U	NA	< 0.2 UJ	4.97 J	NA	424	NA	2.36	NA
C4-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	< 0.3 U	< 0.3 U	NA	< 0.8 U	NA	< 0.3 U	NA
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	9.94	< 0.2 U	14.1 J	55.1 J	1.15	1546	12.5	30.3	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	4.30	< 0.5 U	8.09	< 0.5 U	9.58 J	25.4 J	< 0.5 U	484	4.76	8.75	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	2.99	NA	17.4	NA	11.8 J	27.1 J	NA	395	NA	9.44	NA
Carbazole	ug/kg	3.94 J	NA	1.31	NA	0.88 J	1.59 J	NA	< 0.4 U	NA	0.328	< 0.1 U
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	< 0.1 U	NA	< 0.1 U	NA	< 0.1 U	< 0.1 U	NA	< 0.4 U	NA	< 0.1 U	NA
Dibenzofuran	ug/kg	2.34	NA	2.96	NA	1.83 J	4.04 J	NA	14.7	NA	1.52	NA
Dibenzothiophene	ug/kg	1.62	< 0.314 UB	1.68	< 0.710 UB	0.92 J	2.92 J	< 0.647 UB	< 0.3 U	1.28	2.87	0.473
Naphthalene, 2,6-dimethyl-	ug/kg	1.01	NA	2.41	NA	1.10 J	3.19 J	NA	46.8	NA	2.39	NA
Naphthobenzothiophene	ug/kg	5.19	NA	3.70	NA	3.38 J	12.6 J	NA	239	NA	4.96	NA
Retene	ug/kg	1.14	NA	3.38	NA	2.88 J	4.93 J	NA	72.1	NA	2.26	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	112	NA	313	NA	175	409	NA	4919	NA	103	NA
i-C15	mg/kg	< 0.016 U	NA	0.011 J	NA	0.006 J	0.015 J	NA	0.858	NA	< 0.016 U	NA
i-C16	mg/kg	< 0.004 U	NA	0.032	NA	0.007 J	0.026	NA	1.390	NA	< 0.004 U	NA
i-C18	mg/kg	< 0.004 U	NA	0.016	NA	0.009 J	0.022 J	NA	1.133	NA	< 0.004 U	NA
n-C10 (n-Decane)	mg/kg	< 0.021 U	NA	< 0.021 U	NA	< 0.021 U	< 0.021 U	NA	0.048 J	NA	0.004 J	NA
n-C11 (n-Undecane)	mg/kg	0.003 J	NA	0.005 J	NA	0.005 J	0.005 J	NA	0.095	NA	0.002 J	NA
n-C12 (n-Dodecane)	mg/kg	0.011 J	NA	0.028	NA	0.022 J	0.047 J	NA	0.190	NA	0.017 J	NA
n-C13 (n-Tridecane)	mg/kg	0.005 J	NA	0.015 J	NA	0.008 J	0.015 J	NA	0.253	NA	0.012 J	NA
n-C14 (n-Tetradecane)	mg/kg	0.013 J	NA	0.041	NA	0.023 J	0.052 J	NA	0.288	NA	0.025	NA
n-C15 (Pentadecane)	mg/kg	0.009 J	NA	0.032	NA	0.015 J	0.035	NA	0.547	NA	0.021	NA
n-C16 (n-Hexadecane)	mg/kg	0.021	NA	0.052	NA	0.026 J	0.078 J	NA	0.377	NA	0.030	NA
n-C17 (Heptadecane)	mg/kg	0.009	NA	0.032	NA	0.016 J	0.044 J	NA	0.714	NA	0.025	NA
n-C18 (Octadecane)	mg/kg	0.026	NA	0.060	NA	0.031 J	0.067 J	NA	0.513	NA	0.030	NA
n-C19 (Nonadecane)	mg/kg	0.012	NA	0.040	NA	0.015 J	0.036 J	NA	0.566	NA	0.024	NA
n-C20 (Eicosane)	mg/kg	0.005 J	NA	0.024	NA	0.009 J	0.022	NA	0.330	NA	0.018	NA
n-C21 (Heneicosane)	mg/kg	0.055	NA	0.043	NA	0.020 J	0.039 J	NA	0.538	NA	0.016	NA
n-C22 (Docosane)	mg/kg	0.005	NA	0.024	NA	0.007 J	0.014 J	NA	0.153	NA	0.013	NA
n-C23 (Tricosane)	mg/kg	0.013	NA	0.040	NA	0.008 J	0.027	NA	0.498	NA	0.018	NA
n-C24 (Tetracosane)	mg/kg	0.005 J	NA	0.025	NA	0.011	0.015	NA	0.290	NA	0.025	NA
n-C25 (Pentacosane)	mg/kg	0.018	NA	0.052	NA	0.021 J	0.037 J	NA	0.232	NA	0.031	NA

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
Chemical	**Units**											
n-C26 (Hexacosane)	mg/kg	0.006 J	NA	0.018	NA	0.007 J	0.016	NA	0.154	NA	0.017	NA
n-C27 (Heptacosane)	mg/kg	0.042	NA	0.121	NA	0.041 J	0.093 J	NA	0.496	NA	0.042	NA
n-C28 (Octacosane)	mg/kg	0.023	NA	0.058	NA	0.018 J	0.035 J	NA	0.627	NA	0.023	NA
n-C29 (Nonacosane)	mg/kg	0.110	NA	0.289	NA	0.076 J	0.174 J	NA	1.199	NA	0.120	NA
n-C30 (n-Triacontane)	mg/kg	0.019	NA	0.041	NA	0.023 J	0.048 J	NA	0.575	NA	0.026	NA
n-C31 (Hentriacontane)	mg/kg	0.138	NA	0.415	NA	0.164	0.273	NA	1.632	NA	0.181	NA
n-C32 (Dotriacontane)	mg/kg	0.017	NA	0.025	NA	0.013 J	0.053 J	NA	0.239	NA	0.013	NA
n-C33	mg/kg	0.433	NA	1.018	NA	0.747	0.767	NA	2.483	NA	0.112	NA
n-C34 (Tetratriacontane)	mg/kg	0.018	NA	0.035	NA	0.028	0.042	NA	0.228	NA	0.007 J	NA
n-C35	mg/kg	0.024	NA	0.047	NA	0.071	0.083	NA	0.316	NA	< 0.015 U	NA
n-C36 (Hexatriacontane)	mg/kg	0.008 J	NA	0.026	NA	0.015 J	0.024	NA	0.185	NA	< 0.016 U	NA
n-C37	mg/kg	0.017 J	NA	0.008 J	NA	0.023	0.026	NA	0.186	NA	< 0.017 U	NA
n-C38 (Octatriacontane)	mg/kg	< 0.019 U	NA	< 0.019 U	NA	< 0.019 U	< 0.019 U	NA	< 0.056 U	NA	< 0.019 U	NA
n-C39 (Nonatriacontane)	mg/kg	< 0.019 U	NA	< 0.019 U	NA	< 0.019 U	< 0.019 U	NA	< 0.055 U	NA	< 0.019 U	NA
n-C40 (Tetracontane)	mg/kg	< 0.019 U	NA	< 0.019 U	NA	< 0.019 U	< 0.019 U	NA	< 0.055 U	NA	< 0.019 U	NA
n-C9 (Nonane)	mg/kg	< 0.012 U	NA	< 0.012 U	NA	< 0.012 U	< 0.012 U	NA	< 0.037 U	NA	< 0.012 U	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.006 J	NA	0.033	NA	0.017 J	0.069 J	NA	2.326	NA	0.046	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.009	NA	0.036	NA	0.017 J	0.067 J	NA	1.857	NA	0.039	NA
Total Alkanes	mg/kg	1.1	NA	2.7	NA	1.5 J	2.4 J	NA	21.5	NA	0.9	NA
Total Petroleum Hydrocarbons	mg/kg	21	NA	87	NA	57 J	181 J	NA	2277	NA	59	NA
Total Resolveable Hydrocarbons	mg/kg	6	NA	20	NA	12 J	26 J	NA	162	NA	11	NA
Unresolved Complex Mixture	mg/kg	15	NA	66	NA	45 J	155 J	NA	2115	NA	48	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 11 U	< 10 U	< 14 U	< 13 U	< 13 U	< 11 U	< 12 U	< 14 UJ	< 12 U	< 10 U	< 12 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	2 J	< 6 U	< 5 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
2-Butanone (MEK)	ug/kg	< 11 U	< 10 U	< 14 U	< 13 U	< 13 U	< 11 U	< 12 U	8 J	< 12 U	< 10 U	< 12 U
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 11 U	< 10 U	< 14 U	< 13 U	< 13 U	< 11 U	< 12 U	< 14 UJ	< 12 U	< 10 U	< 12 U
Acetone	ug/kg	< 22 U	< 20 U	61	19 J	23 J	56	11 J	62 J	23 J	37	< 24 U
Allyl chloride	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Benzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	2 J	1 J	< 5 U	< 6 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Chloroform	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 U	< 6 U	< 5 U	< 6 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	2 J	< 6 U	< 5 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
Chemical	**Units**											
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	2 J	< 6 U	< 5 U	< 6 U
Styrene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Toluene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	15 J	< 6 U	< 5 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Trichloroethene	ug/kg	3 J	3 J	3 J	< 7 U	3 J	4 J	3 J	3 J	3 J	3 J	3 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	< 7 UJ	< 6 U	< 5 U	< 6 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 7 U	< 7 U	< 6 U	< 6 U	< 6 U	15 J	< 6 U	< 5 U	< 6 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	100	NA	NA	95.6	NA	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	98.5	NA	NA	83.0	NA	NA	NA	100	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	98.2	NA	NA	74.8	NA	NA	NA	100	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	97.3	NA	NA	65.5	NA	NA	NA	100	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	96.9	NA	NA	43.7	NA	NA	NA	99.3	NA	NA
Sieve, 600 micron, % passing	% passing	NA	94.3	NA	NA	36.6	NA	NA	NA	97.8	NA	NA
Sieve, 300 micron, % passing	% passing	NA	91.2	NA	NA	34.0	NA	NA	NA	96.1	NA	NA
Sieve, 150 micron, % passing	% passing	NA	86.7	NA	NA	30.0	NA	NA	NA	93.0	NA	NA
Sieve, 75 micron, % passing	% passing	NA	80.7	NA	NA	26.1	NA	NA	NA	88.3	NA	NA
Sieve, 64 micron, % passing	% passing	NA	78.0	NA	NA	25.0	NA	NA	NA	86.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	74.0	NA	NA	21.0	NA	NA	NA	79.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	54.0	NA	NA	11.0	NA	NA	NA	57.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	25.0	NA	NA	6.0	NA	NA	NA	23.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	20.0	NA	NA	3.0	NA	NA	NA	18.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	17.0	NA	NA	1.0	NA	NA	NA	12.0	NA	NA
Metals												
Arsenic	mg/kg	4.38	4.43	2.63	6.23	8.58	5.81	3.25	17.3	3.59	3.74	4.16
Barium	mg/kg	45.4	38.0	115	72.0	68.5	64.0	40.4	48.2	48.9	39.5	46.8
Cadmium	mg/kg	< 0.568 U	< 0.640 U	< 0.570 U	< 0.564 U	< 0.630 U	< 0.613 U	< 0.575 U	< 0.551 U	< 0.590 U	< 0.580 U	< 0.553 U
Chromium	mg/kg	12.8 J	12.4 J	16.6 J	17.4 J	46.7 J	23.3 J	14.5 J	45.1 J	12.9 J	12.3 J	14.8 J
Lead	mg/kg	7.34 J	11.4 J	7.39 J	14.3 J	10.6 J	20.8 J	8.64 J	23.8 J	7.57 J	8.69 J	18.4 J
Mercury	mg/kg	0.0243 J	0.0196 J	0.0181 J	0.0139 J	0.0224 J	0.0196 J	0.0202 J	0.0214 J	0.0242 J	0.0307 J	0.0183 J
Nickel	mg/kg	7.87	8.49	9.38	6.96	11.8	10.6	7.95	11.0	8.16	7.63	8.35
Selenium	mg/kg	< 2.27 U	< 2.56 U	< 2.28 U	2.03 J	1.54 J	1.01 J	< 2.30 U	3.05	1.60 J	1.15 J	1.65 J
Silver	mg/kg	< 0.568 U	< 0.640 U	< 0.570 U	< 0.564 U	< 0.630 U	0.245 J	< 0.575 U	0.429 J	< 0.590 U	< 0.580 U	< 0.553 U
Vanadium	mg/kg	21.1 J	25.7 J	22.3 J	28.5 J	41.1 J	29.1 J	23.9 J	39.0 J	23.3 J	22.7 J	25.2 J
Other												
Black Carbon	%	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.19 U	NA	NA	< 0.18 U	NA	NA
Percent Moisture	%	15.3	22.7	14.0	14.7	24.4	22.3	14.7	13.6	18.5	14.7	13.1
Total Organic Carbon	%	NA	0.14 J	NA	NA	0.26	0.56	NA	NA	0.25	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.419 J	0.123 J	6.94	0.693	1.16 J	7.69 J	0.500 J	2.64	0.176 J	0.266 J	0.348 J
2-Methylnaphthalene	ug/kg	1.12 J	0.264 J	12.9	1.5	2.31 J	13.6 J	1.06 J	5.19	0.383 J	0.736 J	0.917 J
Acenaphthene	ug/kg	< 0.1 U	< 0.1 U	0.649	< 0.1 U	< 0.1 UJ	1.39 J	< 0.1 U	0.179	0.039 J	0.056 J	< 0.1 U
Acenaphthylene	ug/kg	< 0.04 U	< 0 U	0.736	< 0.04 U	0.319 J	1.55 J	< 0.04 U	0.253	0.105	0.026 J	< 0.04 U
Anthracene	ug/kg	< 0.1 U	< 0.1 U	1.55	< 0.1 U	0.459 J	5.70 J	< 0.1 U	< 0.1 U	0.114 J	0.126	< 0.1 U
Benzo(a)Anthracene	ug/kg	< 0.2 U	< 0.2 U	2.37	< 0.2 U	1.35 J	5.32 J	< 0.2 U	0.939	0.378	0.206	< 0.2 U
Benzo(a)Pyrene	ug/kg	< 0.1 U	< 0.1 U	2.50	< 0.1 U	0.678 J	7.46 J	< 0.1 U	0.654	0.331 J	0.068 J	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	< 0.2 U	< 0.2 U	7.81	< 0.2 U	3.97 J	20.7 J	< 0.2 U	2.78	1.49	0.540	< 0.2 U
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	< 0.1 U	5.99	< 0.1 U	1.32 J	9.93 J	< 0.1 U	1.78	0.418 J	0.183	< 0.1 U
Benzo(j)+(k)Fluoranthene	ug/kg	< 0.1 U	< 0.1 U	2.43	< 0.1 U	0.786 J	6.88 J	< 0.1 U	0.514	0.589	0.243	< 0.1 U
Chrysene/Triphenylene	ug/kg	< 0.1 U	< 0.1 U	13.6	< 0.1 U	4.60 J	19.8 J	< 0.1 U	4.00	1.08	0.485	< 0.1 U
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	< 0.1 U	1.49	< 0.1 U	0.478 J	2.48 J	< 0.1 U	0.477	0.171	0.059 J	< 0.1 U
Fluoranthene	ug/kg	0.460	0.195 J	7.79	0.438	2.74 J	16.1 J	0.349	2.42	1.28	0.897	0.346
Fluorene	ug/kg	1.54	0.464	6.77	1.63	1.96 J	8.40 J	1.37	3.11	0.461	0.944	1.26
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	< 0.1 U	2.37	< 0.1 U	0.898 J	5.21 J	< 0.1 U	0.870	0.527	0.220	< 0.1 U
Naphthalene	ug/kg	0.955	< 0.354 UB	4.64	1.06	1.41 J	4.83 J	< 0.878 UB	2.06	< 0.439 UB	< 0.780 UB	1.03
Phenanthrene	ug/kg	4.34	1.47	29.8	4.04	8.37 J	51.9 J	3.44	10.3	1.66	3.14	2.97
Pyrene	ug/kg	0.039 J	0.013 J	15.3	0.055 J	3.39 J	20.4 J	0.042 J	3.77	0.736	0.290	0.049 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	< 0.2 U	< 0.2 U	8.01	< 0.2 U	2.82 J	16.7 J	< 0.2 U	2.49	0.956	0.368	< 0.2 U
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	38.7	< 0.2 U	8.21 J	60.6 J	< 0.2 U	9.83	< 0.2 U	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	35.5	< 0.5 U	9.57 J	77.4 J	< 0.5 U	7.76	0.813	0.408 J	< 0.5 U
C1-Fluorenes	ug/kg	0.551	0.143 J	27.2	0.573	5.60 J	40.3 J	0.508	7.82	0.257 J	0.300 J	0.345 J
C1-Phenanthrenes/Anthracenes	ug/kg	< 0.1 U	< 0.1 U	85.2	< 0.1 U	29.7 J	168 J	< 0.1 U	23.2	< 0.1 U	< 0.1 U	< 0.1 U
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	49.5	< 0.2 U	12.1 J	68.5 J	< 0.2 U	13.8	< 0.2 U	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	84.6	< 0.4 U	19.5 J	110 J	< 0.4 U	21.4	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	1.13	0.498 J	42.2	2.09	6.15 J	53.1 J	1.55	13.4	0.771	0.805	0.570 J
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	152	< 0.3 U	58.0 J	318 J	< 0.3 U	45.3	< 0.3 U	< 0.3 U	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	34.3	< 0.2 U	7.87 J	49.9 J	< 0.2 U	9.96	< 0.2 U	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	95.6	< 0.4 U	29.8 J	151 J	< 0.4 U	26.7	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	0.879	< 0.7 U	92.7	0.885	16.9 J	124 J	1.05	21.2	1.04	0.969	0.601 J
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	173	< 0.3 U	66.1 J	350 J	< 0.3 U	42.1	< 0.3 U	< 0.3 U	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	17.2	< 0.2 U	3.76 J	23.0 J	< 0.2 U	5.00	< 0.2 U	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	113	< 0.7 U	20.9 J	215 J	< 0.7 U	23.7	< 0.7 U	< 0.7 U	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	116	< 0.3 U	46.9 J	253 J	< 0.3 U	29.5	< 0.3 U	< 0.3 U	< 0.3 U
Perylene	ug/kg	R	R	0.903 J	R	0.151 J	2.66 J	R	< 1.3 UBJ	1.34 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	< 0.1 UJ	NA	NA	7.88 J	46.3 J	NA	NA	< 0.1 UJ	NA	NA
1,1-Biphenyl	ug/kg	NA	< 0.29 UB	NA	NA	< 0.749 UBJ	3.02 J	NA	NA	< 0.342 UB	NA	NA

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Chemical	**Units**											
18a-Oleanane	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	0.025 J	NA	NA	9.19 J	48.4 J	NA	NA	0.053 J	NA	NA
1-Methylfluorene	ug/kg	NA	0.109 J	NA	NA	5.07 J	30.3 J	NA	NA	0.181 J	NA	NA
1-Methylphenanthrene	ug/kg	NA	< 0.1 U	NA	NA	7.70 J	36.9 J	NA	NA	< 0.1 U	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	< 0.1 U	NA	NA	3.15 J	28.8 J	NA	NA	0.100 J	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	0.059 J	NA	NA	9.89 J	68.0 J	NA	NA	0.158	NA	NA
2-Methylanthracene	ug/kg	NA	< 0.1 U	NA	NA	3.18 J	7.81 J	NA	NA	< 0.1 U	NA	NA
2-Methylfluoranthene	ug/kg	NA	< 0.2 U	NA	NA	1.12 J	5.83 J	NA	NA	0.084 J	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	< 0.1 U	NA	NA	3.15 J	22.1 J	NA	NA	< 0.1 U	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	< 0.1 U	NA	NA	6.69 J	40.3 J	NA	NA	< 0.1 U	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	0.100	NA	NA	14.6 J	90.3 J	NA	NA	0.109	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	< 0.1 U	NA	NA	9.06 J	64.1 J	NA	NA	< 0.1 U	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	< 0.1 U	NA	NA	< 0.1 U	< 0.1 U	NA	NA	< 0.1 U	NA	NA
Benzo(b)fluorene	ug/kg	NA	< 0.1 U	NA	NA	0.880 J	7.17 J	NA	NA	0.098 J	NA	NA
Benzothiophene	ug/kg	NA	< 0.1 U	NA	NA	0.111 J	0.494 J	NA	NA	< 0.1 U	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	0.820 J	5.24 J	NA	NA	< 0.2 U	NA	NA
C1-Decalins	ug/kg	NA	< 0.3 U	NA	NA	< 0.3 UJ	3.43 J	NA	NA	< 0.3 U	NA	NA
C1-Dibenzothiophenes	ug/kg	0.297	0.145	95.8	0.464	26.5 J	163 J	0.414	23.8	0.252	0.369	0.359
C1-Naphthalenes	ug/kg	1.00 J	0.245 J	12.9	1.42	2.19 J	13.4 J	1.02 J	5.08	0.354 J	0.654 J	0.824 J
C1-Naphthobenzothiophenes	ug/kg	NA	< 0.3 U	NA	NA	22.5 J	103.4 J	NA	NA	0.850	NA	NA
C20-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C21-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C26(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C27(20R)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C28(20R)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C28(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C29-Hopane	ug/kg	NA	< 0.6 U	NA	NA	27.6 J	229 J	NA	NA	4.45	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	1.76 J	15.7 J	NA	NA	< 0.2 U	NA	NA
C2-Decalins	ug/kg	NA	< 0.3 U	NA	NA	< 0.3 UJ	5.36 J	NA	NA	< 0.3 U	NA	NA
C2-Dibenzothiophenes	ug/kg	0.339	< 0.2 U	183	0.451	48.7 J	335 J	0.422	45.8	0.427	0.610	0.411
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	53.3	< 0.5 U	14.1 J	112 J	< 0.5 U	12.1	1.58	< 0.5 U	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	< 0.3 U	NA	NA	28.4 J	167.5 J	NA	NA	1.49	NA	NA
C30-Hopane	ug/kg	NA	< 0.6 U	NA	NA	52.2 J	274 J	NA	NA	5.33	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	< 0.2 UJ	30.0 J	NA	NA	< 0.2 U	NA	NA
C3-Decalins	ug/kg	NA	< 0.3 U	NA	NA	< 0.3 UJ	16.1 J	NA	NA	< 0.3 U	NA	NA
C3-Dibenzothiophenes	ug/kg	0.192 J	< 0.2 U	245	< 0.2 U	70.9 J	430 J	< 0.2 U	57.3	0.882	< 0.2 U	< 0.2 U
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	32.0	< 0.5 U	12.3 J	80.9 J	< 0.5 U	6.49	0.777	< 0.5 U	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	< 0.3 U	NA	NA	23.2 J	113.9 J	NA	NA	1.32	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	< 0.2 UJ	64.1 J	NA	NA	< 0.2 U	NA	NA
C4-Decalins	ug/kg	NA	< 0.3 U	NA	NA	< 0.3 UJ	42.2 J	NA	NA	< 0.3 U	NA	NA
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	104	< 0.2 U	54.5 J	324 J	< 0.2 U	35.1	1.21	< 0.2 U	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	35.4	< 0.5 U	9.11 J	78.6 J	< 0.5 U	7.01	< 0.5 U	< 0.5 U	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	< 0.3 U	NA	NA	12.1 J	42.7 J	NA	NA	< 0.3 U	NA	NA
Carbazole	ug/kg	< 0.1 U	< 0.15 UB	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 UJ	< 0.1 U	< 0.1 U
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	< 0.1 U	NA	NA	< 0.1 UJ	1.89 J	NA	NA	< 0.1 U	NA	NA
Dibenzofuran	ug/kg	NA	0.435	NA	NA	1.19 J	4.59 J	NA	NA	0.407	NA	NA
Dibenzothiophene	ug/kg	0.278	0.155	20.9	0.397	6.26 J	32.0 J	0.316	5.23	0.199	0.309	0.299
Naphthalene, 2,6-dimethyl-	ug/kg	NA	0.162 J	NA	NA	2.84 J	22.2 J	NA	NA	0.337	NA	NA
Naphthobenzothiophene	ug/kg	NA	< 0.1 U	NA	NA	10.2 J	35.0 J	NA	NA	0.433	NA	NA
Retene	ug/kg	NA	< 0.2 U	NA	NA	4.13 J	21.8 J	NA	NA	< 0.2 U	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	28 J	NA	NA	121 J	746 J	NA	NA	49 J	NA	NA
i-C15	mg/kg	NA	< 0.016 U	NA	NA	0.009 J	0.113 J	NA	NA	< 0.016 U	NA	NA
i-C16	mg/kg	NA	< 0.004 U	NA	NA	0.009 J	0.075 J	NA	NA	< 0.004 U	NA	NA
i-C18	mg/kg	NA	< 0.004 U	NA	NA	0.024 J	0.253 J	NA	NA	< 0.004 U	NA	NA
n-C10 (n-Decane)	mg/kg	NA	< 0.021 U	NA	NA	0.003 J	< 0.021 U	NA	NA	< 0.021 U	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	< 0.016 U	NA	NA	0.002 J	0.007 J	NA	NA	< 0.016 U	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.009 J	NA	NA	0.012 J	0.021	NA	NA	0.009 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.004 J	NA	NA	0.006 J	0.029 J	NA	NA	0.002 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.007 J	NA	NA	0.017 J	0.090 J	NA	NA	0.004 J	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.005 J	NA	NA	0.016 J	0.100 J	NA	NA	0.020	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.010	NA	NA	0.022 J	0.152 J	NA	NA	0.010	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.004	NA	NA	0.025 J	0.207 J	NA	NA	0.008	NA	NA
n-C18 (Octadecane)	mg/kg	NA	0.008	NA	NA	0.041 J	0.228 J	NA	NA	0.011	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.004 J	NA	NA	0.039 J	0.183 J	NA	NA	0.010	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.003 J	NA	NA	0.021 J	0.139 J	NA	NA	0.003 J	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	0.004 J	NA	NA	0.022 J	0.160 J	NA	NA	0.010	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.005	NA	NA	0.021 J	0.123 J	NA	NA	0.006	NA	NA
n-C23 (Tricosane)	mg/kg	NA	0.008 J	NA	NA	0.027 J	0.140 J	NA	NA	0.010	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.007	NA	NA	0.028 J	0.146 J	NA	NA	0.010	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	0.013	NA	NA	0.035 J	0.160 J	NA	NA	0.016	NA	NA

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Chemical	**Units**											
n-C26 (Hexacosane)	mg/kg	NA	0.007 J	NA	NA	0.018 J	0.098 J	NA	NA	0.010	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	0.022	NA	NA	0.052 J	0.229 J	NA	NA	0.047	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.006 J	NA	NA	0.021 J	0.121 J	NA	NA	0.011 J	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	0.026	NA	NA	0.117 J	0.655 J	NA	NA	0.069	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	0.005 J	NA	NA	0.027 J	0.193 J	NA	NA	0.009 J	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	0.013 J	NA	NA	0.115 J	0.844 J	NA	NA	0.043	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	0.002 J	NA	NA	0.014 J	0.064 J	NA	NA	0.008 J	NA	NA
n-C33	mg/kg	NA	< 0.021 U	NA	NA	0.079 J	1.122 J	NA	NA	0.034	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	< 0.016 U	NA	NA	0.007 J	0.068 J	NA	NA	0.003 J	NA	NA
n-C35	mg/kg	NA	< 0.015 U	NA	NA	< 0.015 U	0.311 J	NA	NA	< 0.015 U	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	< 0.016 U	NA	NA	< 0.016 U	0.068 J	NA	NA	< 0.016 U	NA	NA
n-C37	mg/kg	NA	< 0.017 U	NA	NA	< 0.017 U	0.141 J	NA	NA	< 0.017 U	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	< 0.019 U	NA	NA	< 0.019 U	< 0.019 U	NA	NA	< 0.019 U	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	< 0.019 U	NA	NA	< 0.019 U	< 0.019 U	NA	NA	< 0.019 U	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	< 0.019 U	NA	NA	< 0.019 U	< 0.019 U	NA	NA	< 0.019 U	NA	NA
n-C9 (Nonane)	mg/kg	NA	< 0.012 U	NA	NA	< 0.012 U	< 0.012 U	NA	NA	< 0.012 U	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	0.003 J	NA	NA	0.069 J	0.483 J	NA	NA	0.003 J	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	0.003 J	NA	NA	0.052 J	0.417 J	NA	NA	0.005	NA	NA
Total Alkanes	mg/kg	NA	0.2	NA	NA	1.0 J	7.1 J	NA	NA	0.4	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	10	NA	NA	69 J	293 J	NA	NA	29	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	3	NA	NA	26 J	81 J	NA	NA	14	NA	NA
Unresolved Complex Mixture	mg/kg	NA	7	NA	NA	43 J	212 J	NA	NA	15	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 11 U	< 11 U	< 10 U	< 10 U	< 12 U	< 11 U	< 10 U	< 9 U	< 10 U	< 10 U	< 10 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	1 J	< 5 U	< 5 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2-Butanone (MEK)	ug/kg	< 11 U	9 J	< 10 U	< 10 U	5 J	7 J	< 10 U	< 9 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 11 U	< 11 U	< 10 U	< 10 U	< 12 U	< 11 U	< 10 U	< 9 U	< 10 U	< 10 U	< 10 U
Acetone	ug/kg	11 J	71	12 J	< 20 U	78	96	< 21 U	< 18 U	31	18 J	15 J
Allyl chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Benzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	4 J	1 J	< 5 U	< 5 U	< 5 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Chemical	**Units**											
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Styrene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Toluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Trichloroethene	ug/kg	1 J	2 J	7	4 J	3 J	2 J	3 J	2 J	2 J	2 J	3 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	2 J	1 J	< 5 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	100	NA	NA	97.3	NA	NA	100	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	99.5	NA	NA	86.9	NA	NA	86.4	NA	NA	99.9	NA
Sieve, 3350 micron, % passing	% passing	99.1	NA	NA	81.6	NA	NA	82.7	NA	NA	99.8	NA
Sieve, 2360 micron, % passing	% passing	98.5	NA	NA	78.3	NA	NA	77.7	NA	NA	99.4	NA
Sieve, 1180 micron, % passing	% passing	97.4	NA	NA	76.0	NA	NA	76.0	NA	NA	99.3	NA
Sieve, 600 micron, % passing	% passing	95.2	NA	NA	73.8	NA	NA	73.4	NA	NA	98.9	NA
Sieve, 300 micron, % passing	% passing	92.8	NA	NA	71.7	NA	NA	65.7	NA	NA	97.9	NA
Sieve, 150 micron, % passing	% passing	87.5	NA	NA	62.3	NA	NA	52.2	NA	NA	79.6	NA
Sieve, 75 micron, % passing	% passing	79.9	NA	NA	45.2	NA	NA	43.3	NA	NA	58.5	NA
Sieve, 64 micron, % passing	% passing	76.0	NA	NA	41.0	NA	NA	41.5	NA	NA	54.0	NA
Sieve, 50 micron, % passing	% passing	69.5	NA	NA	35.0	NA	NA	36.0	NA	NA	45.0	NA
Sieve, 20 micron, % passing	% passing	46.0	NA	NA	19.0	NA	NA	24.0	NA	NA	28.0	NA
Sieve, 5 micron, % passing	% passing	20.0	NA	NA	9.0	NA	NA	12.0	NA	NA	12.0	NA
Sieve, 2 micron, % passing	% passing	13.0	NA	NA	7.0	NA	NA	8.5	NA	NA	9.0	NA
Sieve, 1 micron, % passing	% passing	8.0	NA	NA	5.0	NA	NA	8.0	NA	NA	8.0	NA
Metals												
Arsenic	mg/kg	4.63	3.11	3.04	14.8	24.7	26.8	2.74	1.34 J	1.79 J	2.34	3.22
Barium	mg/kg	65.1	62.1	36.8	64.6	86.7	70.5	41.3	36.1	33.5	32.5	28.9
Cadmium	mg/kg	0.152 J	< 0.595 U	0.0984 J	< 0.584 U	< 2.97 U	< 2.82 U	< 0.664 U	< 0.565 U	< 0.556 U	< 0.579 U	< 0.570 U
Chromium	mg/kg	13.3	11.5	11.1	31.4 J	65.0 J	42.8 J	12.8 J	9.70 J	10.2 J	9.34 J	11.0 J
Lead	mg/kg	12.0	10.1	9.14	14.8 J	25.1 J	25.8 J	8.04 J	7.32 J	6.41 J	7.29	9.67
Mercury	mg/kg	0.0366 J	0.0333 J	0.0208 J	0.0298 J	0.0353 J	0.0356 J	0.0250 J	0.0180 J	0.0186 J	0.0154 J	< 0.114 U
Nickel	mg/kg	9.39	8.09	6.62	17.3	27.3	21.2	5.44	5.10	4.61	5.03	4.96
Selenium	mg/kg	< 2.33 U	< 2.38 U	1.01 J	3.39	6.11	5.86	< 2.66 U	< 2.26 U	< 2.22 U	< 2.32 U	< 2.28 U
Silver	mg/kg	< 0.581 U	< 0.595 U	< 0.572 U	0.470 J	28.7	34.3	< 0.664 U	< 0.565 U	< 0.556 U	< 0.579 U	< 0.570 U
Vanadium	mg/kg	21.6	20.2	18.8	29.1 J	45.2 J	39.3 J	16.5 J	12.6 J	12.6 J	14.3	16.2
Other												
Black Carbon	%	< 0.19 U	NA	NA	< 0.19 U	NA	NA	< 0.19 U	NA	NA	< 0.2 U	NA
Percent Moisture	%	16.5	15.9	16.0	16.9	18.2	13.8	26.2	15.7	14.3	17.8	14.9
Total Organic Carbon	%	0.31	NA	NA	0.19	NA	NA	0.17	NA	NA	0.18	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.368 J	1.02	0.684	0.882	1.12	1.11	0.262 J	0.470 J	0.368 J	0.559	0.536 J
2-Methylnaphthalene	ug/kg	0.772 J	2.01	1.44	1.87	2.00	2.18	0.496 J	0.844 J	0.706 J	1.12 J	1.49
Acenaphthene	ug/kg	< 0.1 U	0.186	0.15	0.175	0.108	0.115	< 0.1 U	0.107	0.082 J	0.040 J	< 0.1 UJ
Acenaphthylene	ug/kg	0.155	0.230	0.07	0.403	0.151	0.124	< 0.04 U	0.067	< 0.04 U	0.053	< 0.04 UJ
Anthracene	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	0.689	0.144	< 0.1 U	< 0.1 U	0.081 J	0.045 J	< 0.1 UJ	< 0.1 U
Benzo(a)Anthracene	ug/kg	0.326	< 0.2 U	< 0.2 U	3.79	0.209	0.077 J	< 0.2 U	0.157 J	0.065 J	0.217	0.082 J
Benzo(a)Pyrene	ug/kg	0.139	< 0.1 U	< 0.1 U	5.88	0.189	0.023 J	< 0.1 U	0.116	< 0.1 U	0.079 J	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	1.29	0.26	< 0.2 U	13.6	0.659	0.268	< 0.2 U	0.273	< 0.2 U	0.745	< 0.2 U
Benzo(g,h,i)Perylene	ug/kg	0.325	0.12	< 0.1 U	5.78	0.344	0.097	< 0.1 U	0.140	0.059 J	0.278 J	< 0.1 U
Benzo(j)+(k)Fluoranthene	ug/kg	0.417	0.06 J	< 0.1 U	5.35	0.186	0.052 J	< 0.1 U	0.098 J	< 0.1 U	0.298	< 0.1 U
Chrysene/Triphenylene	ug/kg	1.05	< 0.1 U	< 0.1 U	9.65	0.450	0.162	< 0.1 U	0.165	0.034 J	0.550	0.085 J
Dibenz(a,h)Anthracene	ug/kg	0.124	< 0.1 U	< 0.1 U	1.49	0.101	0.037 J	< 0.1 U	0.040 J	0.041 J	0.084	< 0.1 U
Fluoranthene	ug/kg	1.06	1.21	0.981	11.5	1.00	0.690	0.531	0.624	< 0.486 UB	1.24	0.688
Fluorene	ug/kg	0.549	4.01	3.00	1.62	2.06	2.04	1.16	1.41	1.29	1.26	2.09 J
Indeno[1,2,3-cd]pyrene	ug/kg	0.366	< 0.1 U	< 0.1 U	4.67	0.302	0.098	< 0.1 U	0.111	0.041 J	0.290	< 0.1 U
Naphthalene	ug/kg	< 0.771 UB	1.74	< 1.16 UB	1.55	1.70	1.84	< 0.653 UB	0.769	0.808	0.903	1.62
Phenanthrene	ug/kg	2.23	9.72	7.82	7.16	4.40	4.76	3.03	3.35	3.33	3.69	5.23
Pyrene	ug/kg	0.745	0.225	< 0.14 UB	9.23	0.732	< 0.260 UB	0.236	< 0.523 UB	< 0.267 UB	0.668	0.052 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.631	< 0.2 U	< 0.2 U	8.02	0.352	0.123 J	< 0.2 U	0.170 J	< 0.2 U	0.421	< 0.2 U
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	5.99	0.380	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	0.603	0.335 J	< 0.5 U	7.14	0.664	0.256 J	< 0.5 U	0.243 J	0.086 J	0.235 J	< 0.5 U
C1-Fluorenes	ug/kg	< 0.4 U	1.45	0.938	1.16	0.719	0.772	0.523	0.510	0.467	0.512	0.523 J
C1-Phenanthrenes/Anthracenes	ug/kg	< 0.1 U	4.19	3.70	8.38	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	5.98	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ
C2-Naphthalenes	ug/kg	1.46	3.88	2.25	3.39	3.67	3.15	0.774	2.03	1.35	1.91	1.22 J
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	16.8	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	4.24	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ
C3-Naphthalenes	ug/kg	1.50	3.45	1.10	6.45	4.30	1.99	2.67	4.36	3.84	1.68	< 0.7 UJ
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	17.1	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	2.86	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	< 0.7 U	3.98	< 0.7 U	6.27	2.47	1.48	< 0.7 U	1.74	< 0.7 U	1.50	< 0.7 UJ
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	13.9	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
Perylene	ug/kg	< 1.27 UBJ	R	R	1.65	0.066 J	0.090 J	0.22 J	0.273 J	0.158 J	< 1.3 UBJ	0.063 J
Phenanthrene, 2-methyl-	ug/kg	< 0.1 UJ	NA	NA	2.07 J	NA	NA	< 0.1 UJ	NA	NA	< 0.1 UJ	NA
1,1-Biphenyl	ug/kg	< 0.831 UB	NA	NA	< 0.802 UB	NA	NA	< 0.431 UB	NA	NA	< 0.336 UB	NA

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Chemical	**Units**											
18a-Oleanane	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.097	NA	NA	1.29	NA	NA	< 0.1 U	NA	NA	0.142	NA
1-Methylfluorene	ug/kg	< 0.2 U	NA	NA	0.312	NA	NA	0.218	NA	NA	0.292	NA
1-Methylphenanthrene	ug/kg	< 0.1 U	NA	NA	1.54	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
2,3,5-Trimethylnaphthalene	ug/kg	0.206	NA	NA	0.773	NA	NA	0.174	NA	NA	0.187	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.194	NA	NA	1.62	NA	NA	< 0.1 U	NA	NA	0.112	NA
2-Methylanthracene	ug/kg	< 0.1 U	NA	NA	2.87	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
2-Methylfluoranthene	ug/kg	0.084 J	NA	NA	0.791	NA	NA	< 0.2 U	NA	NA	0.054 J	NA
3,6-Dimethylphenanthrene	ug/kg	< 0.1 U	NA	NA	0.730	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
3-Methylphenanthrene (3MP)	ug/kg	< 0.1 U	NA	NA	1.53	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	0.282	NA	NA	2.36	NA	NA	< 0.1 U	NA	NA	0.212	NA
9/4-Methylphenanthrene (9MP)	ug/kg	< 0.1 U	NA	NA	1.72	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
Benzo(a)Fluoranthene	ug/kg	< 0.1 U	NA	NA	1.06	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
Benzo(b)fluorene	ug/kg	0.069 J	NA	NA	1.00	NA	NA	< 0.1 U	NA	NA	0.044 J	NA
Benzothiophene	ug/kg	0.142	NA	NA	0.076 J	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA
C1-Decalins	ug/kg	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA
C1-Dibenzothiophenes	ug/kg	0.451	0.800	0.623	4.15	0.358	0.351	< 0.1 U	0.111	0.091	0.401	0.369
C1-Naphthalenes	ug/kg	0.721 J	1.64	1.15	1.74	1.99	2.11	0.409 J	0.841 J	0.688 J	1.09	1.25
C1-Naphthobenzothiophenes	ug/kg	< 0.3 U	NA	NA	8.01	NA	NA	< 0.3 U	NA	NA	0.337	NA
C20-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C21-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C26(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C27(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C28(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C28(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C29-Hopane	ug/kg	< 0.6 U	NA	NA	22.1	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA
C2-Decalins	ug/kg	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA
C2-Dibenzothiophenes	ug/kg	0.515	0.883	0.531	10.8	0.490	0.413	< 0.2 U	0.148 J	0.126 J	0.433	0.322
C2-Fluoranthenes/Pyrenes	ug/kg	1.419	< 0.5 U	< 0.5 U	12.2	0.662	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.398 J	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	< 0.3 U	NA	NA	12.8	NA	NA	< 0.3 U	NA	NA	0.452	NA
C30-Hopane	ug/kg	< 0.6 U	NA	NA	26.4	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA
C3-Decalins	ug/kg	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA
C3-Dibenzothiophenes	ug/kg	0.447	1.03	0.322	17.3	0.593	0.325	< 0.2 U	0.156 J	0.092 J	0.292	< 0.2 U
C3-Fluoranthenes/Pyrenes	ug/kg	0.566	< 0.5 U	< 0.5 U	8.32	0.286 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.140 J	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	< 0.3 U	NA	NA	10.1	NA	NA	< 0.3 U	NA	NA	0.429	NA
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA
C4-Decalins	ug/kg	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	14.0	0.588	0.154 J	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	6.51	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	< 0.3 U	NA	NA	6.60	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA
Carbazole	ug/kg	0.265	NA	NA	1.15	NA	NA	0.073 J	NA	NA	0.047 J	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	< 0.1 U	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA
Dibenzofuran	ug/kg	0.625	NA	NA	1.31	NA	NA	1.01	NA	NA	0.958	NA
Dibenzothiophene	ug/kg	0.360	0.909	0.651	1.17	0.501	0.479	0.162	0.182	0.157	0.419	0.406
Naphthalene, 2,6-dimethyl-	ug/kg	0.603	NA	NA	1.72	NA	NA	0.359	NA	NA	0.955	NA
Naphthobenzothiophene	ug/kg	0.366	NA	NA	4.34	NA	NA	< 0.1 U	NA	NA	0.353	NA
Retene	ug/kg	< 0.2 U	NA	NA	0.989	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	64 J	NA	NA	75 J	NA	NA	30 J	NA	NA	50 J	NA
i-C15	mg/kg	< 0.016 U	NA	NA	< 0.016 U	NA	NA	0.006 J	NA	NA	0.007 J	NA
i-C16	mg/kg	< 0.004 U	NA	NA	< 0.004 U	NA	NA	0.019	NA	NA	0.002 J	NA
i-C18	mg/kg	< 0.004 U	NA	NA	< 0.004 U	NA	NA	0.006	NA	NA	0.006	NA
n-C10 (n-Decane)	mg/kg	< 0.021 U	NA	NA	< 0.021 U	NA	NA	< 0.021 U	NA	NA	< 0.021 U	NA
n-C11 (n-Undecane)	mg/kg	< 0.016 U	NA	NA	0.004 J	NA	NA	0.004 J	NA	NA	< 0.016 U	NA
n-C12 (n-Dodecane)	mg/kg	0.007 J	NA	NA	0.018 J	NA	NA	0.012 J	NA	NA	0.018 J	NA
n-C13 (n-Tridecane)	mg/kg	0.002 J	NA	NA	0.008 J	NA	NA	0.007 J	NA	NA	0.009 J	NA
n-C14 (n-Tetradecane)	mg/kg	0.004 J	NA	NA	0.015	NA	NA	0.013	NA	NA	0.017	NA
n-C15 (Pentadecane)	mg/kg	0.003 J	NA	NA	0.012 J	NA	NA	0.003 J	NA	NA	0.008 J	NA
n-C16 (n-Hexadecane)	mg/kg	0.008	NA	NA	0.020	NA	NA	0.017	NA	NA	0.023	NA
n-C17 (Heptadecane)	mg/kg	0.005	NA	NA	0.018	NA	NA	0.008	NA	NA	0.062	NA
n-C18 (Octadecane)	mg/kg	0.016	NA	NA	0.029	NA	NA	0.012	NA	NA	0.014	NA
n-C19 (Nonadecane)	mg/kg	0.010	NA	NA	0.019	NA	NA	0.006	NA	NA	0.010	NA
n-C20 (Eicosane)	mg/kg	0.002 J	NA	NA	0.006 J	NA	NA	0.003 J	NA	NA	0.003 J	NA
n-C21 (Heneicosane)	mg/kg	0.010	NA	NA	0.018	NA	NA	0.003 J	NA	NA	0.012	NA
n-C22 (Docosane)	mg/kg	0.005	NA	NA	0.007	NA	NA	0.005	NA	NA	0.004	NA
n-C23 (Tricosane)	mg/kg	0.011	NA	NA	0.019	NA	NA	0.007 J	NA	NA	0.007 J	NA
n-C24 (Tetracosane)	mg/kg	0.009	NA	NA	0.012	NA	NA	0.006	NA	NA	0.006	NA
n-C25 (Pentacosane)	mg/kg	0.017	NA	NA	0.028	NA	NA	0.008	NA	NA	0.009	NA

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Chemical	**Units**											
n-C26 (Hexacosane)	mg/kg	0.010	NA	NA	0.012	NA	NA	0.010	NA	NA	0.005 J	NA
n-C27 (Heptacosane)	mg/kg	0.026	NA	NA	0.058	NA	NA	0.012	NA	NA	0.015	NA
n-C28 (Octacosane)	mg/kg	0.012	NA	NA	0.025	NA	NA	0.022	NA	NA	0.005 J	NA
n-C29 (Nonacosane)	mg/kg	0.091	NA	NA	0.203	NA	NA	0.028	NA	NA	0.021 J	NA
n-C30 (n-Triacontane)	mg/kg	0.012 J	NA	NA	0.015	NA	NA	0.021	NA	NA	0.004 J	NA
n-C31 (Hentriacontane)	mg/kg	0.050	NA	NA	0.179	NA	NA	0.014 J	NA	NA	0.019	NA
n-C32 (Dotriacontane)	mg/kg	0.006 J	NA	NA	0.018	NA	NA	0.013	NA	NA	0.003 J	NA
n-C33	mg/kg	0.048	NA	NA	0.176	NA	NA	0.011 J	NA	NA	0.015 J	NA
n-C34 (Tetratriacontane)	mg/kg	0.003 J	NA	NA	0.005 J	NA	NA	0.010 J	NA	NA	0.002 J	NA
n-C35	mg/kg	< 0.015 U	NA	NA	0.042	NA	NA	0.009 J	NA	NA	0.005 J	NA
n-C36 (Hexatriacontane)	mg/kg	< 0.016 U	NA	NA	< 0.016 U	NA	NA	0.007 J	NA	NA	< 0.016 U	NA
n-C37	mg/kg	< 0.017 U	NA	NA	< 0.017 U	NA	NA	0.006 J	NA	NA	< 0.017 U	NA
n-C38 (Octatriacontane)	mg/kg	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA
n-C39 (Nonatriacontane)	mg/kg	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA
n-C40 (Tetracontane)	mg/kg	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA
n-C9 (Nonane)	mg/kg	< 0.012 U	NA	NA	< 0.012 U	NA	NA	< 0.012 U	NA	NA	< 0.012 U	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.003 J	NA	NA	0.021	NA	NA	0.003 J	NA	NA	0.004 J	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.005	NA	NA	0.017	NA	NA	0.006	NA	NA	0.001 J	NA
Total Alkanes	mg/kg	0.4	NA	NA	1.0	NA	NA	0.3	NA	NA	0.3	NA
Total Petroleum Hydrocarbons	mg/kg	51	NA	NA	54	NA	NA	19	NA	NA	12.5	NA
Total Resolveable Hydrocarbons	mg/kg	14	NA	NA	8	NA	NA	1.9	NA	NA	3.02	NA
Unresolved Complex Mixture	mg/kg	37	NA	NA	45	NA	NA	17	NA	NA	9.51	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 10 U	< 10 U	< 10 U	< 10 U	< 13 U	< 9 U	< 10 U	< 9 U	< 9 U	< 10 U	< 10 U
1,1-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2,2-Dichloropropane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2-Butanone (MEK)	ug/kg	< 10 U	< 10 U	< 10 U	< 10 U	< 13 U	< 9 U	< 10 U	< 9 U	< 9 U	4 J	< 10 U
2-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2-Phenylbutane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
4-Chlorotoluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 10 U	< 10 U	< 10 U	< 10 U	< 13 U	< 9 U	< 10 U	< 9 U	< 9 U	< 10 U	< 10 U
Acetone	ug/kg	23	24	8 J	29	< 26 U	16 J	11 J	< 18 U	< 18 U	71	37
Allyl chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Benzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromodichloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon Tetrachloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chlorobenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromochloromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromomethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorofluoromethane	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Ethylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Chemical	**Units**											
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
n-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
n-Propylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 5 U	< 5 U	5 J	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Styrene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Tert-Butylbenzene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Tetrachloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Tetrahydrofuran	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Toluene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Trichloroethene	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	3 J	< 5 U	2 J	2 J	< 5 UB	< 5 UB
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Vinyl Chloride	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Xylene (Total)	ug/kg	< 5 U	< 5 U	< 5 U	< 5 U	< 7 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location Depths (ft) Sample Date Sample ID	SED-DA-012 1-1.5 ft 8/4/2013 SED-DA-012(1.0-1.5)	SED-DA-013 0-0.5 ft 8/4/2013 SED-DA-013(0.0-0.5)	SED-DA-013 0.5-1 ft 8/4/2013 SED-DA-013(0.5-1.0)	SED-DA-013 1-1.5 ft 8/4/2013 SED-DA-013(1.0-1.5)
Chemical	**Units**				
Grain Size					
Sieve 3 inch, % passing	% passing	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	99.9	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	99.7	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	99.3	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	99.2	NA	NA
Sieve, 600 micron, % passing	% passing	NA	99.0	NA	NA
Sieve, 300 micron, % passing	% passing	NA	98.6	NA	NA
Sieve, 150 micron, % passing	% passing	NA	86.2	NA	NA
Sieve, 75 micron, % passing	% passing	NA	66.7	NA	NA
Sieve, 64 micron, % passing	% passing	NA	62.5	NA	NA
Sieve, 50 micron, % passing	% passing	NA	53.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	31.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	13.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	9.5	NA	NA
Sieve, 1 micron, % passing	% passing	NA	7.0	NA	NA
Metals					
Arsenic	mg/kg	2.78	2.18 J	4.51	3.30
Barium	mg/kg	29.8	45.1	43.4	51.3
Cadmium	mg/kg	< 0.584 U	< 0.588 U	< 0.564 U	< 0.579 U
Chromium	mg/kg	10.3 J	9.14 J	10.2 J	12.1 J
Lead	mg/kg	6.75	8.55	7.73	7.95
Mercury	mg/kg	0.0156 J	0.0119 J	0.0124 J	< 0.114 U
Nickel	mg/kg	5.18	4.96	5.47	7.12
Selenium	mg/kg	< 2.34 U	< 2.35 U	< 2.25 U	< 2.32 U
Silver	mg/kg	< 0.584 U	< 0.588 U	< 0.564 U	< 0.579 U
Vanadium	mg/kg	16.2	12.5	15.9	18.7
Other					
Black Carbon	%	NA	< 0.19 U	NA	NA
Percent Moisture	%	15.3	16.7	15.5	16.2
Total Organic Carbon	%	NA	0.21	NA	NA
Priority PAHs					
1-Methylnaphthalene	ug/kg	0.848	0.669	0.828	0.83
2-Methylnaphthalene	ug/kg	2.12	1.20 J	1.46	1.93
Acenaphthene	ug/kg	< 0.1 U	< 0.1 U	0.063 J	0.25
Acenaphthylene	ug/kg	< 0.04 U	< 0.04 U	0.072	0.05
Anthracene	ug/kg	< 0.1 U	0.048 J	< 0.1 U	< 0.1 U
Benzo(a)Anthracene	ug/kg	0.089 J	0.084 J	0.103 J	0.063 J
Benzo(a)Pyrene	ug/kg	< 0.1 U	0.049 J	< 0.1 U	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	< 0.2 U	0.258	< 0.2 U	< 0.2 U
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	0.097	< 0.1 U	< 0.1 U
Benzo(j)+(k)Fluoranthene	ug/kg	< 0.1 U	0.081 J	< 0.1 U	< 0.1 U
Chrysene/Triphenylene	ug/kg	0.067 J	0.172	0.073 J	0.032 J
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	0.034 J	< 0.1 U	< 0.1 U
Fluoranthene	ug/kg	0.916	0.493	0.868	1.85
Fluorene	ug/kg	2.58	1.24	2.54	5.57
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	0.087	< 0.1 U	< 0.1 U
Naphthalene	ug/kg	1.61	1.32	1.17	1.23
Phenanthrene	ug/kg	7.29	2.96	6.42	14.9
Pyrene	ug/kg	0.076 J	0.492	0.152	0.048 J
Forensic PAHs					
Benzo(e)Pyrene	ug/kg	< 0.2 U	0.150 J	< 0.2 U	< 0.2 U
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	0.360 J	< 0.5 U	< 0.5 U
C1-Fluorenes	ug/kg	1.01	0.531	0.887	1.80
C1-Phenanthrenes/Anthracenes	ug/kg	4.16	< 0.1 U	< 0.1 U	5.23
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C2-Naphthalenes	ug/kg	2.44	2.72	3.67	3.39
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
C3-Naphthalenes	ug/kg	1.73	2.60	4.47	2.04
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
Perylene	ug/kg	R	1.03 J	0.235 J	R
Phenanthrene, 2-methyl-	ug/kg	NA	< 0.1 UJ	NA	NA
1,1-Biphenyl	ug/kg	NA	< 0.3 UB	NA	NA

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location Depths (ft) Sample Date Sample ID	SED-DA-012 1-1.5 ft 8/4/2013 SED-DA-012(1.0-1.5)	SED-DA-013 0-0.5 ft 8/4/2013 SED-DA-013(0.0-0.5)	SED-DA-013 0.5-1 ft 8/4/2013 SED-DA-013(0.5-1.0)	SED-DA-013 1-1.5 ft 8/4/2013 SED-DA-013(1.0-1.5)
Chemical	**Units**				
18a-Oleanane	ug/kg	NA	< 0.6 U	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	0.158	NA	NA
1-Methylfluorene	ug/kg	NA	0.328	NA	NA
1-Methylphenanthrene	ug/kg	NA	< 0.1 U	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	0.323	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	0.144	NA	NA
2-Methylanthracene	ug/kg	NA	< 0.1 U	NA	NA
2-Methylfluoranthene	ug/kg	NA	0.032 J	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	< 0.1 U	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	< 0.1 U	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	0.202	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	< 0.1 U	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	< 0.1 U	NA	NA
Benzo(b)fluorene	ug/kg	NA	0.029 J	NA	NA
Benzothiophene	ug/kg	NA	< 0.1 U	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA
C1-Decalins	ug/kg	NA	< 0.3 U	NA	NA
C1-Dibenzothiophenes	ug/kg	0.575	0.434	0.434	0.507
C1-Naphthalenes	ug/kg	1.83	1.21	1.40	1.70
C1-Naphthobenzothiophenes	ug/kg	NA	0.380	NA	NA
C20-TAS	ug/kg	NA	< 0.6 U	NA	NA
C21-TAS	ug/kg	NA	< 0.6 U	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA
C26(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA
C27(20R)-TAS	ug/kg	NA	< 0.6 U	NA	NA
C28(20R)-TAS	ug/kg	NA	< 0.6 U	NA	NA
C28(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA
C29-Hopane	ug/kg	NA	< 0.6 U	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA
C2-Decalins	ug/kg	NA	< 0.3 U	NA	NA
C2-Dibenzothiophenes	ug/kg	0.466	0.445	0.372	0.595
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	0.647	NA	NA
C30-Hopane	ug/kg	NA	< 0.6 U	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA
C3-Decalins	ug/kg	NA	< 0.3 U	NA	NA
C3-Dibenzothiophenes	ug/kg	0.316	0.501	0.342	< 0.2 U
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	0.477	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA
C4-Decalins	ug/kg	NA	< 0.3 U	NA	NA
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	< 0.3 U	NA	NA
Carbazole	ug/kg	NA	0.044 J	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	< 0.1 U	NA	NA
Dibenzofuran	ug/kg	NA	0.818	NA	NA
Dibenzothiophene	ug/kg	0.589	0.341	0.469	0.621
Naphthalene, 2,6-dimethyl-	ug/kg	NA	1.14	NA	NA
Naphthobenzothiophene	ug/kg	NA	0.368	NA	NA
Retene	ug/kg	NA	< 0.2 U	NA	NA
TPH					
EOM (Extracted Organic Material)	mg/kg	NA	32 J	NA	NA
i-C15	mg/kg	NA	< 0.016 U	NA	NA
i-C16	mg/kg	NA	< 0.004 U	NA	NA
i-C18	mg/kg	NA	< 0.004 U	NA	NA
n-C10 (n-Decane)	mg/kg	NA	< 0.021 U	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	< 0.016 U	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.013 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.007 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.011 J	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.004 J	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.021	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.005	NA	NA
n-C18 (Octadecane)	mg/kg	NA	0.012	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.006	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.002 J	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	0.004 J	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.004	NA	NA
n-C23 (Tricosane)	mg/kg	NA	0.005 J	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.005 J	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	0.010	NA	NA

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location Depths (ft) Sample Date Sample ID	SED-DA-012 1-1.5 ft 8/4/2013 SED-DA-012(1.0-1.5)	SED-DA-013 0-0.5 ft 8/4/2013 SED-DA-013(0.0-0.5)	SED-DA-013 0.5-1 ft 8/4/2013 SED-DA-013(0.5-1.0)	SED-DA-013 1-1.5 ft 8/4/2013 SED-DA-013(1.0-1.5)
Chemical	**Units**				
n-C26 (Hexacosane)	mg/kg	NA	0.005 J	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	0.012	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.005 J	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	0.035	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	0.006 J	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	0.021	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	0.029	NA	NA
n-C33	mg/kg	NA	0.072	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	0.010 J	NA	NA
n-C35	mg/kg	NA	0.031	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	< 0.016 U	NA	NA
n-C37	mg/kg	NA	< 0.017 U	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	< 0.019 U	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	< 0.019 U	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	< 0.019 U	NA	NA
n-C9 (Nonane)	mg/kg	NA	< 0.012 U	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	< 0.006 U	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	< 0.003 U	NA	NA
Total Alkanes	mg/kg	NA	0.3	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	5.10	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	3.24	NA	NA
Unresolved Complex Mixture	mg/kg	NA	1.86	NA	NA
VOCs					
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 9 U	< 12 U	< 9 U	< 11 U
1,1-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,1-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,1-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2-Dichloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,3-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
2,2-Dichloropropane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
2-Butanone (MEK)	ug/kg	< 9 U	< 12 U	< 9 U	< 11 U
2-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
2-Phenylbutane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
4-Chlorotoluene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 9 U	< 12 U	< 9 U	< 11 U
Acetone	ug/kg	29	17 J	< 19 U	15 J
Allyl chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Benzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Bromobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Bromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Bromodichloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Bromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Carbon Tetrachloride	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Chlorobenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Chloroethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Chloroform	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Chloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Dibromochloromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Dibromomethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Dichlorofluoromethane	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Ethylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location Depths (ft) Sample Date Sample ID	SED-DA-012 1-1.5 ft 8/4/2013 SED-DA-012(1.0-1.5)	SED-DA-013 0-0.5 ft 8/4/2013 SED-DA-013(0.0-0.5)	SED-DA-013 0.5-1 ft 8/4/2013 SED-DA-013(0.5-1.0)	SED-DA-013 1-1.5 ft 8/4/2013 SED-DA-013(1.0-1.5)
Chemical	**Units**				
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
n-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
n-Propylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Styrene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Tert-Butylbenzene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Tetrachloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Tetrahydrofuran	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Toluene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Trichloroethene	ug/kg	< 5 UB	< 6 UB	< 5 U	< 5 UB
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Vinyl Chloride	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U
Xylene (Total)	ug/kg	< 5 U	< 6 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Drainage Way Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

% = percent
< = less than the limit of quantitation
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
ft = feet
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
ug/kg = micrograms per kilogram
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
VOCs = volatile organic compounds

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	100	NA	NA	100	NA	100	NA	100	NA
Sieve 1.5 inch, % passing	% passing	100	NA	100	NA	NA	100	NA	100	NA	100	NA
Sieve 0.75 inch, % passing	% passing	100	NA	100	NA	NA	100	NA	100	NA	100	NA
Sieve, 4750 micron, % passing	% passing	99.9	NA	99.9	NA	NA	100	NA	100	NA	100	NA
Sieve, 3350 micron, % passing	% passing	99.8	NA	99.8	NA	NA	99.9	NA	100	NA	100	NA
Sieve, 2360 micron, % passing	% passing	99.7	NA	99.7	NA	NA	99.6	NA	100	NA	99.8	NA
Sieve, 1180 micron, % passing	% passing	99.6	NA	99.3	NA	NA	98.4	NA	99.7	NA	92.0	NA
Sieve, 600 micron, % passing	% passing	98.5	NA	97.9	NA	NA	95.4	NA	99.3	NA	83.1	NA
Sieve, 300 micron, % passing	% passing	95.2	NA	94.4	NA	NA	91.8	NA	98.1	NA	77.8	NA
Sieve, 150 micron, % passing	% passing	89.7	NA	84.2	NA	NA	79.6	NA	93.9	NA	74.0	NA
Sieve, 75 micron, % passing	% passing	78.6	NA	71.6	NA	NA	69.4	NA	87.0	NA	71.0	NA
Sieve, 64 micron, % passing	% passing	73.0	NA	67.0	NA	NA	65.0	NA	79.0	NA	69.5	NA
Sieve, 50 micron, % passing	% passing	62.0	NA	60.0	NA	NA	57.0	NA	60.5	NA	66.0	NA
Sieve, 20 micron, % passing	% passing	37.0	NA	43.0	NA	NA	41.5	NA	31.0	NA	57.0	NA
Sieve, 5 micron, % passing	% passing	16.0	NA	22.0	NA	NA	24.0	NA	15.0	NA	43.0	NA
Sieve, 2 micron, % passing	% passing	12.0	NA	17.0	NA	NA	18.0	NA	8.0	NA	32.0	NA
Sieve, 1 micron, % passing	% passing	11.0	NA	15.0	NA	NA	16.0	NA	7.0	NA	21.0	NA
Metals												
Arsenic	mg/kg	2.52	2.57	3.05	7.30	5.43	4.98	28.1	4.07	3.67	10.9	15.5
Barium	mg/kg	58.5	64.2	70.4	83.1	271	108	89.4	89.3	78.0	196	250
Cadmium	mg/kg	0.0926 J	0.125 J	0.232 J	0.348 J	0.332 J	0.408 J	0.338 J	0.213 J	0.234 J	< 1.31 U	< 1.72 U
Chromium	mg/kg	15.5	12.2	12.8	25.1	28.4	20.4	62.1	14.7	12.3	27.7	34.0
Lead	mg/kg	6.87	11.7	13.5	21.0	21.2	21.3	40.8	16.7	15.8	44.6	45.0
Mercury	mg/kg	0.0123 J	0.0123 J	0.0290 J	0.0302 J	0.0495 J	0.0404 J	0.0412 J	0.0363 J	0.0336 J	0.0687 J	0.0885 J
Nickel	mg/kg	6.90	7.23	9.08	11.1	16.9	13.4	13.7	11.0	9.54	25.9	31.0
Selenium	mg/kg	< 2.31 U	< 2.35 U	< 2.78 U	< 2.66 U	< 2.91 U	< 3.27 U	2.93 J	< 2.62 U	< 2.64 U	< 5.25 U	< 6.88 U
Silver	mg/kg	< 0.579 U	< 0.589 U	< 0.695 U	< 0.666 U	< 0.728 U	< 0.818 U	0.416 J	< 0.654 U	< 0.660 U	< 1.31 U	< 1.72 U
Vanadium	mg/kg	21.6	20.7	20.0	37.1	42.8	31.2	92.8	24.9	20.8	44.9	51.5
Other												
Black Carbon	%	< 0.17 U	NA	< 0.17 U	NA	NA	< 0.21 U	NA	< 0.19 U	NA	0.38 J	0.39 J
Percent Moisture	%	16.9	15.9	29.5	26.4	32.0	40.1	44.1	23.6	25.0	63.0	71.2
Total Organic Carbon	%	0.17 J	NA	2.15	NA	NA	5.48	NA	1.88	NA	11.34	11.72
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.392 J	0.943	177	70.2	2.72	14.0	3.69	42.2	282	20.8	22.2
2-Methylnaphthalene	ug/kg	0.641 J	1.92	233	96.3	5.57	12.6	6.32	64.0	395	34.1	40.8
Acenaphthene	ug/kg	0.051 J	0.338	16.4	9.53	0.687	72.7	17.3	4.24	31.4	4.28	5.02
Acenaphthylene	ug/kg	0.040 J	0.121	11.8	6.15	0.908	3.79	2.12	4.06	19.5	12.6	10.6
Anthracene	ug/kg	0.030 J	0.220	24.1	17.7	1.38	9.35	2.27	4.05	23.7	14.4	14.1
Benzo(a)Anthracene	ug/kg	0.058 J	0.169 J	26.8	26.4	2.49	6.00	5.85	11.3	18.2	12.2	12.4
Benzo(a)Pyrene	ug/kg	0.043 J	0.211	30.3	28.8	1.59	4.90	4.02	24.1	39.6	13.8	17.9
Benzo(b)Fluoranthene	ug/kg	0.117 J	0.561	55.8	50.4	10.3	24.0	13.4	48.4	59.5	77.1	87.1
Benzo(g,h,i)Perylene	ug/kg	0.080 J	0.328	32.6	28.9	2.04	13.4	4.80	27.8	69.6	66.3	73.2
Benzo(j)+(k)Fluoranthene	ug/kg	0.035 J	0.236	14.6	15.5	2.12	7.71	4.62	13.7	18.9	16.7	13.8
Chrysene/Triphenylene	ug/kg	0.088 J	0.342	117	74.0	9.63	11.4	11.5	65.4	161	35.5	33.0
Dibenz(a,h)Anthracene	ug/kg	0.016 J	0.084	7.98	8.77	0.897	8.38	1.94	6.77	13.5	11.5	14.3
Fluoranthene	ug/kg	0.409	1.70	62.0	52.7	8.45	39.6	15.6	38.3	59.2	43.5 J	44.9 J
Fluorene	ug/kg	1.16	3.43	79.0	44.5	3.86	97.5	23.6	34.0	140	17.3 J	33.4 J
Indeno[1,2,3-cd]pyrene	ug/kg	0.054	0.254	15.7	14.2	2.34	5.60	5.21	1.06	21.2	40.7	45.7
Naphthalene	ug/kg	< 0.713 UB	1.47	32.3	14.4	6.50	12.6	6.77	9.19	44.0	19.5	31.5
Phenanthrene	ug/kg	3.39	10.9	331	203	13.0	174	22.8	141	416	35.6 J	64.9 J
Pyrene	ug/kg	0.292	0.815	108	91.7	4.25	31.7	9.85	72.1	111	30.8	29.3
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.090 J	0.343 J	54.2	41.5 J	3.87 J	12.5	6.02	42.6	73.0	44.4	48.8
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	340	217	10.3	< 0.2 U	< 0.2 U	188	455	95.7	110
C1-Fluoranthenes/Pyrenes	ug/kg	0.265 J	0.499	328	245	5.66	18.3	9.88	187	484	49.8	53.4
C1-Fluorenes	ug/kg	0.493	1.38	317	178	3.24	12.8	4.57	121	< 1.8 U	21.3	22.3
C1-Phenanthrenes/Anthracenes	ug/kg	< 0.1 U	5.60	926	604	11.8	27.4	11.8	464	1207	47.5	49.0
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	396	197	3.53	< 0.2 U	< 0.2 U	220	628	86.3	109
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	739	435	< 0.4 U	17.6	4.53	316	< 1.8 U	65.8	51.9
C2-Naphthalenes	ug/kg	1.58	4.52	1029	435	8.77	52.9	16.8	315	1647	80.8	79.3
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	1406	1083	11.5	30.1	12.1	842	1767	84.4	80.2
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	262	157	< 0.2 U	< 0.2 U	< 0.2 U	193	510	69.4	85.5
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	714	483	< 0.4 U	18.9	8.90	341	< 1.8 U	64.4	55.3
C3-Naphthalenes	ug/kg	2.71	6.93	1519	643	12.9	27.4	13.3	570	2378	71.6	82.6
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	1743	1073	6.10	22.6	6.15	830	1921	89.5	102
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	170	108	< 0.2 U	< 0.2 U	< 0.2 U	88.9	255	42.4	61.6

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Chemical	**Units**											
C4-Naphthalenes	ug/kg	1.51	5.77	1331	788	6.89	86.6	23.9	488	2056	169	66.6
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	686	5.64	18.3	4.83	613	1290	50.8 J	107 J
Perylene	ug/kg	1.96	12.7	30.8	31.2	166	51.8	201	17.0	37.6	171	192
Phenanthrene, 2-methyl-	ug/kg	< 0.1 UJ	NA	329 J	NA	NA	10.0 J	NA	142 J	NA	15.6 J	17.4 J
1,1-Biphenyl	ug/kg	< 0.3 UB	NA	40.2	NA	NA	6.81	NA	12.0	NA	7.94	10.4
18a-Oleanane	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
1-Methyldibenzothiophene(1MDT)	ug/kg	0.140	NA	284	NA	NA	1.50	NA	163	NA	10.8	7.69
1-Methylfluorene	ug/kg	0.324	NA	213	NA	NA	5.22	NA	95.5	NA	12.3	12.5
1-Methylphenanthrene	ug/kg	< 0.1 U	NA	233	NA	NA	5.49	NA	132	NA	11.5	11.8
2,3,5-Trimethylnaphthalene	ug/kg	0.223	NA	198	NA	NA	3.35	NA	76.4	NA	9.31	9.12
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.100	NA	434	NA	NA	5.42	NA	205	NA	15.8	12.3
2-Methylanthracene	ug/kg	< 0.1 U	NA	27.6	NA	NA	4.48	NA	8.0	NA	7.76	7.23
2-Methylfluoranthene	ug/kg	0.023 J	NA	23.0	NA	NA	3.43	NA	19.9	NA	4.56	4.77
3,6-Dimethylphenanthrene	ug/kg	< 0.1 U	NA	116	NA	NA	2.42	NA	35.8	NA	8.77	8.15
3-Methylphenanthrene (3MP)	ug/kg	< 0.1 U	NA	238	NA	NA	10.1	NA	138	NA	13.0 J	14.2 J
4-Methyldibenzothiophene(4MDT)	ug/kg	0.216	NA	507	NA	NA	3.47	NA	304	NA	19.0	14.6
9/4-Methylphenanthrene (9MP)	ug/kg	< 0.1 U	NA	386	NA	NA	5.91	NA	187	NA	14.2	13.3
Benzo(a)Fluoranthene	ug/kg	< 0.1 U	NA	< 0.1 U	NA	NA	4.03	NA	< 0.1 U	NA	26.6	22.9
Benzo(b)fluorene	ug/kg	0.035 J	NA	43.4	NA	NA	3.31	NA	22.3	NA	7.68	8.20
Benzothiophene	ug/kg	< 0.1 U	NA	5.47	NA	NA	1.30	NA	1.35	NA	< 0.5 U	< 0.5 U
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	56.9	NA	NA	11.9	NA	15.7	NA	< 0.9 U	< 0.9 U
C1-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	NA	< 0.3 U	NA	7.85	NA	< 1.3 UJ	80.3 J
C1-Dibenzothiophenes	ug/kg	0.393	0.683	1054	481	2.94	8.94	5.22	578	1394	40.8	30.9
C1-Naphthalenes	ug/kg	0.670 J	1.82	265	105	5.25	17.1	6.49	68.7	438	35.0	40.3
C1-Naphthobenzothiophenes	ug/kg	0.316	NA	511	NA	NA	7.71	NA	323	NA	82.3	97.4
C20-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C21-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C26(20S)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C27(20R)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C28(20R)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C28(20S)-TAS	ug/kg	< 0.6 U	NA	< 0.6 U	NA	NA	< 0.6 U	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C29-Hopane	ug/kg	< 0.6 U	NA	812	NA	NA	83.6	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	113	NA	NA	62.3	NA	60.9	NA	< 0.9 U	< 0.9 U
C2-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	NA	< 0.3 U	NA	22.1	NA	< 1.3 U	< 1.3 U
C2-Dibenzothiophenes	ug/kg	0.604	1.08	1872	888	< 0.2 U	9.88	6.08	1019	2449	76.9	61.9
C2-Fluoranthenes/Pyrenes	ug/kg	0.369 J	1.07	686	401	< 0.5 U	< 0.5 U	< 0.5 U	307	502	97.3	95.3
C2-Naphthobenzothiophenes	ug/kg	0.616	NA	766	NA	NA	12.4	NA	507	NA	169	192
C30-Hopane	ug/kg	< 0.6 U	NA	902	NA	NA	81.6	NA	< 0.6 U	NA	< 2.9 U	< 2.9 U
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	473	NA	NA	38.5	NA	163	NA	< 0.9 U	< 0.9 U
C3-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	NA	< 0.3 U	NA	83.1	NA	< 1.3 U	< 1.3 U
C3-Dibenzothiophenes	ug/kg	0.730	1.04	2082	1125	< 0.2 U	14.1	5.87	1394	2588	113	113
C3-Fluoranthenes/Pyrenes	ug/kg	0.277 J	< 0.5 U	458	254	< 0.5 U	< 0.5 U	< 0.5 U	224	672	57.6	81.5
C3-Naphthobenzothiophenes	ug/kg	0.409	NA	576	NA	NA	7.59	NA	401	NA	145	164
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	604	NA	NA	42.3	NA	244	NA	< 0.9 U	< 0.9 U
C4-Decalins	ug/kg	< 0.3 U	NA	< 0.3 U	NA	NA	< 0.3 U	NA	151	NA	< 1.3 U	< 1.3 U
C4-Dibenzothiophenes	ug/kg	< 0.2 U	0.597	1486	807	< 0.2 U	5.56	2.85	833	1562	119	110
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	435	311	< 0.5 U	< 0.5 U	< 0.5 U	260	560	95.9	61.7
C4-Naphthobenzothiophenes	ug/kg	< 0.3 U	NA	352	NA	NA	16.6	NA	188	NA	61.6	70.3
Carbazole	ug/kg	0.054 J	NA	10.7	< 0.1 U	< 0.1 U	1.70	< 0.1 U	7.47	< 0.7 U	6.96	7.64
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	< 0.1 U	NA	< 0.1 U	NA	NA	< 0.1 U	NA	4.45	NA	19.9	18.9
Dibenzofuran	ug/kg	0.853	NA	34.4	NA	NA	54.3	NA	14.7	NA	9.51 J	20.6 J
Dibenzothiophene	ug/kg	0.349	0.721	283	127	2.45	14.1	4.55	142	460	18.5	17.3
Naphthalene, 2,6-dimethyl-	ug/kg	0.671	NA	469	NA	NA	19.7	NA	145	NA	31.6	33.8
Naphthobenzothiophene	ug/kg	0.231	NA	190	NA	NA	6.00	NA	119	NA	23.7	22.2
Retene	ug/kg	< 0.2 U	NA	126	NA	NA	7.22	NA	67.0	NA	5.52	4.76
TPH												
EOM (Extracted Organic Material)	mg/kg	28 J	NA	4555	NA	NA	1477	NA	3004	NA	5266	4838
i-C15	mg/kg	< 0.016 U	NA	0.817	NA	NA	0.119	NA	0.426	NA	0.751 J	0.076 J
i-C16	mg/kg	< 0.004 U	NA	1.501	NA	NA	0.139	NA	0.931	NA	0.938 J	0.237 J
i-C18	mg/kg	< 0.004 U	NA	1.182	NA	NA	0.166	NA	0.874	NA	0.051	0.058
n-C10 (n-Decane)	mg/kg	< 0.021 U	NA	0.019 J	NA	NA	< 0.021 U	NA	0.024	NA	0.017 J	0.037
n-C11 (n-Undecane)	mg/kg	< 0.016 U	NA	0.061	NA	NA	0.006 J	NA	0.032	NA	0.044	0.065
n-C12 (n-Dodecane)	mg/kg	< 0.019 U	NA	0.322	NA	NA	0.049	NA	0.121	NA	0.055 J	0.187 J
n-C13 (n-Tridecane)	mg/kg	< 0.045 U	NA	0.654	NA	NA	0.022 J	NA	0.235	NA	0.079	0.149
n-C14 (n-Tetradecane)	mg/kg	< 0.013 U	NA	1.357	NA	NA	0.048	NA	0.687	NA	0.120 J	0.338 J
n-C15 (Pentadecane)	mg/kg	< 0.016 U	NA	1.222	NA	NA	0.217	NA	0.834	NA	2.050 J	0.792 J

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	< 0.004 U	NA	1.428	NA	NA	0.122	NA	1.077	NA	0.049 J	0.298 J
n-C17 (Heptadecane)	mg/kg	< 0.003 U	NA	1.618	NA	NA	0.044	NA	1.241	NA	0.837	0.704
n-C18 (Octadecane)	mg/kg	< 0.004 U	NA	1.326	NA	NA	0.259	NA	1.108	NA	1.214	1.338
n-C19 (Nonadecane)	mg/kg	< 0.005 U	NA	1.308	NA	NA	0.132	NA	0.960	NA	1.223	1.404
n-C20 (Eicosane)	mg/kg	< 0.012 U	NA	0.954	NA	NA	0.035	NA	0.781	NA	0.239	0.258
n-C21 (Heneicosane)	mg/kg	< 0.004 U	NA	1.049	NA	NA	0.253	NA	0.911	NA	4.764	5.131
n-C22 (Docosane)	mg/kg	< 0.003 U	NA	0.717	NA	NA	0.113	NA	0.579	NA	0.465	0.443
n-C23 (Tricosane)	mg/kg	< 0.008 U	NA	0.535	NA	NA	0.124	NA	0.591	NA	4.893	4.894
n-C24 (Tetracosane)	mg/kg	< 0.005 U	NA	0.612	NA	NA	0.122	NA	0.566	NA	0.655	0.665
n-C25 (Pentacosane)	mg/kg	< 0.007 U	NA	0.785	NA	NA	0.245	NA	0.631	NA	4.179	4.330
n-C26 (Hexacosane)	mg/kg	< 0.008 U	NA	0.473	NA	NA	0.058	NA	0.384	NA	0.633	0.497
n-C27 (Heptacosane)	mg/kg	< 0.011 U	NA	1.073	NA	NA	0.576	NA	0.865	NA	5.294	5.139
n-C28 (Octacosane)	mg/kg	< 0.011 U	NA	0.496	NA	NA	0.407	NA	0.505	NA	1.170	0.999
n-C29 (Nonacosane)	mg/kg	< 0.021 U	NA	3.437	NA	NA	2.841	NA	1.078	NA	8.569	8.060
n-C30 (n-Triacontane)	mg/kg	< 0.013 U	NA	0.663	NA	NA	0.255	NA	0.618	NA	1.423	1.410
n-C31 (Hentriacontane)	mg/kg	< 0.015 U	NA	3.557	NA	NA	1.870	NA	1.111	NA	12.499	10.358
n-C32 (Dotriacontane)	mg/kg	< 0.012 U	NA	0.234	NA	NA	0.164	NA	0.352	NA	2.803	2.879
n-C33	mg/kg	< 0.021 U	NA	1.791	NA	NA	1.646	NA	0.709	NA	12.325	14.808
n-C34 (Tetratriacontane)	mg/kg	< 0.016 U	NA	0.346	NA	NA	0.178	NA	0.264	NA	1.776	2.628
n-C35	mg/kg	< 0.015 U	NA	1.459	NA	NA	1.320	NA	0.682	NA	5.203	3.877
n-C36 (Hexatriacontane)	mg/kg	< 0.016 U	NA	0.474	NA	NA	0.084	NA	0.255	NA	1.693 J	0.504 J
n-C37	mg/kg	< 0.017 U	NA	0.712	NA	NA	1.233	NA	0.690	NA	4.761 J	1.679 J
n-C38 (Octatriacontane)	mg/kg	< 0.019 U	NA	< 0.019 U	NA	NA	< 0.019 U	NA	< 0.019 U	NA	0.421	0.372
n-C39 (Nonatriacontane)	mg/kg	< 0.019 U	NA	< 0.019 U	NA	NA	< 0.019 U	NA	< 0.019 U	NA	1.234	1.237
n-C40 (Tetracontane)	mg/kg	< 0.019 U	NA	< 0.019 U	NA	NA	< 0.019 U	NA	< 0.019 U	NA	0.148	0.111
n-C9 (Nonane)	mg/kg	< 0.012 U	NA	< 0.012 U	NA	NA	< 0.012 U	NA	< 0.012 U	NA	< 0.012 U	< 0.012 U
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	< 0.006 U	NA	1.969	NA	NA	0.121	NA	1.572	NA	0.645	0.649
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	< 0.003 U	NA	1.687	NA	NA	0.017	NA	1.290	NA	0.272	0.376
Total Alkanes	mg/kg	< 0 U	NA	35.8	NA	NA	13.0	NA	23.0	NA	83.5	77.0
Total Petroleum Hydrocarbons	mg/kg	< 1.4 U	NA	1841	NA	NA	529	NA	1462	NA	1713	1658
Total Resolveable Hydrocarbons	mg/kg	< 1.4 U	NA	228	NA	NA	343	NA	168	NA	687	667
Unresolved Complex Mixture	mg/kg	< 1.4 U	NA	1613	NA	NA	186	NA	1294	NA	1026	992
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,1,1-Trichloroethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,1,2,2-Tetrachloroethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
1,1,2-Trichloroethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 9 U	< 9 U	< 700 U	< 11 U	< 18 U	< 19 U	< 16 U	< 11 U	< 680 U	< 39 U	< 45 U
1,1-Dichloroethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,1-Dichloroethene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,1-Dichloropropene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,2,3-Trichlorobenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
1,2,3-Trichloropropane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
1,2,4-Trichlorobenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
1,2,4-Trimethylbenzene	ug/kg	< 4 U	< 5 U	520	200	< 9 U	< 9 U	< 8 U	9	2500	12 J	10 J
1,2-Dibromo-3-Chloropropane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
1,2-Dibromoethane (EDB)	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,2-Dichlorobenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
1,2-Dichloroethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,2-Dichloropropane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,3,5-Trimethylbenzene	ug/kg	< 4 U	< 5 U	270 J	100	< 9 U	< 9 U	< 8 U	6	1100	10 J	7 J
1,3-Dichlorobenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
1,3-Dichloropropane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
1,4-Dichlorobenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
2,2-Dichloropropane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
2-Butanone (MEK)	ug/kg	< 9 U	< 9 U	< 700 U	< 11 U	< 18 U	< 19 U	< 16 U	< 11 U	< 680 U	34 J	55
2-Chlorotoluene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
2-Phenylbutane	ug/kg	< 4 U	< 5 U	< 350 U	26	< 9 U	< 9 U	< 8 U	2 J	280 J	< 20 UJ	< 22 UJ
4-Chlorotoluene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
4-Methyl-2-pentanone (MIBK)	ug/kg	< 9 U	< 9 U	< 700 U	< 11 U	< 18 U	< 19 U	< 16 U	< 11 U	< 680 U	< 39 U	< 45 U
Acetone	ug/kg	< 18 U	7 J	< 1400 U	42	22 J	62	30 J	19 J	< 1400 U	210	260
Allyl chloride	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Benzene	ug/kg	< 4 U	< 5 U	< 350 U	19	< 9 U	< 9 U	< 8 U	0.7 J	< 340 U	4 J	6 J
Bromobenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
Bromochloromethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Bromodichloromethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Bromoform (Tribromomethane)	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Chemical	**Units**											
Bromomethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Carbon Tetrachloride	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Chlorobenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Chloroethane	ug/kg	< 4 U	< 5 U	< 350 UJ	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 UJ	< 20 U	< 22 U
Chloroform	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Chloromethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
cis-1,2-Dichloroethene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
cis-1,3-Dichloropropene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Dibromochloromethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Dibromomethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Dichlorofluoromethane	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Diethyl ether (Ethyl ether)	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Ethylbenzene	ug/kg	< 4 U	< 5 U	110 J	66	< 9 U	< 9 U	< 8 U	1 J	350	< 20 U	< 22 U
Hexachloro-1,3-Butadiene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
Isopropylbenzene (Cumene)	ug/kg	< 4 U	< 5 U	< 350 U	29	< 9 U	< 9 U	< 8 U	1 J	280 J	< 20 U	< 22 U
Methylene Chloride (Dichloromethane)	ug/kg	< 4 U	< 5 U	< 350 U	3 J	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Methyl-tert-butyl ether	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
n-Butylbenzene	ug/kg	< 4 U	< 5 U	100 J	30	< 9 U	< 9 U	< 8 U	2 J	430	< 20 UJ	< 22 UJ
n-Propylbenzene	ug/kg	< 4 U	< 5 U	100 J	48	< 9 U	< 9 U	< 8 U	2 J	480	< 20 UJ	< 22 UJ
p-Isopropyltoluene (Cymene)	ug/kg	< 4 U	< 5 U	130 J	40	< 9 U	< 9 U	< 8 U	2 J	840	< 20 UJ	< 22 UJ
Styrene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Tert-Butylbenzene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 UJ	< 22 UJ
Tetrachloroethene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Tetrahydrofuran	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Toluene	ug/kg	< 4 U	< 5 U	90 J	12	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	5 J	< 22 U
trans-1,2-Dichloroethene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
trans-1,3-Dichloropropene	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Trichloroethene	ug/kg	1 J	1 J	< 350 U	2 J	2 J	2 J	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Vinyl Chloride	ug/kg	< 4 U	< 5 U	< 350 U	< 6 U	< 9 U	< 9 U	< 8 U	< 6 U	< 340 U	< 20 U	< 22 U
Xylene (Total)	ug/kg	< 4 U	< 5 U	730	420	< 9 U	< 9 U	< 8 U	8	2600	18 J	23

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	NA	NA	NA	100	NA	NA	NA	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	NA	NA	NA	100	NA	NA	NA	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	NA	NA	NA	99.9	NA	NA	NA	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	NA	NA	NA	99.7	NA	NA	NA	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	NA	NA	NA	99.3	NA	NA	NA	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	NA	NA	NA	99.0	NA	NA	NA	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	NA	NA	NA	98.5	NA	NA	NA	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	NA	NA	NA	88.8	NA	NA	NA	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	NA	NA	NA	83.1	NA	NA	NA	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	NA	NA	NA	80.4	NA	NA	NA	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	NA	NA	NA	78.3	NA	NA	NA	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	NA	NA	NA	71.0	NA	NA	NA	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	NA	NA	NA	53.0	NA	NA	NA	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	NA	NA	NA	34.0	NA	NA	NA	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	NA	NA	NA	21.0	NA	NA	NA	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	NA	NA	NA	13.0	NA	NA	NA	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	NA	NA	NA	8.0	NA	NA	NA	NA	NA
Metals												
Arsenic	mg/kg	10.0	4.76	NA	NA	NA	7.29 J	19.9	4.95	NA	NA	NA
Barium	mg/kg	177	110	NA	NA	NA	112	278	113	NA	NA	NA
Cadmium	mg/kg	< 1.20 U	< 0.718 U	NA	NA	NA	< 3.39 U	< 4.29 U	< 0.653 U	NA	NA	NA
Chromium	mg/kg	23.9	15.3	NA	NA	NA	16.0	35.0	14.9	NA	NA	NA
Lead	mg/kg	38.0	16.8	NA	NA	NA	19.8	58.8	17.2	NA	NA	NA
Mercury	mg/kg	0.0662 J	0.0347 J	NA	NA	NA	< 0.683 U	0.102 J	0.0546 J	NA	NA	NA
Nickel	mg/kg	23.1	12.5	NA	NA	NA	14.9	32.8	11.8	NA	NA	NA
Selenium	mg/kg	< 4.79 U	< 2.87 U	NA	NA	NA	< 13.6 U	< 17.2 U	< 2.61 U	NA	NA	NA
Silver	mg/kg	< 1.20 U	< 0.718 U	NA	NA	NA	< 3.39 U	< 4.29 U	< 0.653 U	NA	NA	NA
Vanadium	mg/kg	38.5	27.9	NA	NA	NA	23.0	59.8	27.4	NA	NA	NA
Other												
Black Carbon	%	NA	NA	NA	NA	NA	0.37 J	NA	NA	NA	NA	NA
Percent Moisture	%	58.7	32.4	29.3	20.3	18.4	85.4	88.8	23.4	21.6	21.7	17.4
Total Organic Carbon	%	NA	NA	NA	NA	NA	10.58	NA	NA	NA	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	7.01	1.67	0.882	NA	NA	22.9 J	4.43	1.38	NA	NA	NA
2-Methylnaphthalene	ug/kg	15.0	3.60	1.93	NA	NA	41.2	9.51	2.62	NA	NA	NA
Acenaphthene	ug/kg	2.53	0.615	0.251	NA	NA	6.31 J	2.76	0.324	NA	NA	NA
Acenaphthylene	ug/kg	5.47	0.473	0.136	NA	NA	15.6 J	3.43	< 0 U	NA	NA	NA
Anthracene	ug/kg	9.05	0.597	0.135	NA	NA	23.2 J	10.1	0.514	NA	NA	NA
Benzo(a)Anthracene	ug/kg	10.9	0.794	0.206	NA	NA	12.9	10.2	1.78	NA	NA	NA
Benzo(a)Pyrene	ug/kg	10.4	< 0.1 U	0.308	NA	NA	24.1 J	11.9	0.930	NA	NA	NA
Benzo(b)Fluoranthene	ug/kg	54.8	< 0.2 U	0.686	NA	NA	98.6 J	40.8	5.22	NA	NA	NA
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	< 0.1 U	0.592	NA	NA	99.1	< 0.1 U	1.07	NA	NA	NA
Benzo(j)+(k)Fluoranthene	ug/kg	13.8	< 0.1 U	0.186	NA	NA	31.9	11.9	0.87	NA	NA	NA
Chrysene/Triphenylene	ug/kg	38.1	3.41	0.502	NA	NA	54.8	22.9	4.47	NA	NA	NA
Dibenz(a,h)Anthracene	ug/kg	14.1	< 0.1 U	0.167	NA	NA	12.6 J	< 0.1 U	1.40	NA	NA	NA
Fluoranthene	ug/kg	36.9 J	3.15 J	1.20 J	NA	NA	58.4 J	30.9 J	3.67 J	NA	NA	NA
Fluorene	ug/kg	12.1	4.34	3.57	NA	NA	25.8 J	10.5	3.20	NA	NA	NA
Indeno[1,2,3-cd]pyrene	ug/kg	16.1	< 0.1 U	0.423	NA	NA	50.4	14.1	1.23	NA	NA	NA
Naphthalene	ug/kg	13.7	4.35	2.39	NA	NA	20.5 J	11.0	4.21	NA	NA	NA
Phenanthrene	ug/kg	36.1	11.2	7.38	NA	NA	70.6	32.5	8.72	NA	NA	NA
Pyrene	ug/kg	21.8	1.90	0.503	NA	NA	50.1	16.3	1.94	NA	NA	NA
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	36.9	< 0.2 U	0.372	NA	NA	57.4	23.4	2.45	NA	NA	NA
C1-Chrysenes	ug/kg	191	< 0.2 U	< 0.2 U	NA	NA	101	< 0.2 U	< 0.2 U	NA	NA	NA
C1-Fluoranthenes/Pyrenes	ug/kg	52.5	3.14	1.14	NA	NA	86.1	40.8	3.66	NA	NA	NA
C1-Fluorenes	ug/kg	10.5	2.25	1.63	NA	NA	43.1	9.87	2.14	NA	NA	NA
C1-Phenanthrenes/Anthracenes	ug/kg	42.8	7.40	5.08	NA	NA	108	30.4	6.81	NA	NA	NA
C2-Chrysenes	ug/kg	118	< 0.2 U	< 0.2 U	NA	NA	94.8	< 0.2 U	< 0.2 U	NA	NA	NA
C2-Fluorenes	ug/kg	49.0	< 0.4 U	< 0.4 U	NA	NA	127	18.9	< 0.4 U	NA	NA	NA
C2-Naphthalenes	ug/kg	29.1	6.67	3.51	NA	NA	125	37.3	5.57	NA	NA	NA
C2-Phenanthrenes/Anthracenes	ug/kg	82.8	6.88	5.28	NA	NA	210	53.5	< 0.3 U	NA	NA	NA
C3-Chrysenes	ug/kg	93.3	< 0.2 U	< 0.2 U	NA	NA	104	< 0.2 U	< 0.2 U	NA	NA	NA
C3-Fluorenes	ug/kg	49.2	< 0.4 U	< 0.4 U	NA	NA	140	22.5	< 0.4 U	NA	NA	NA
C3-Naphthalenes	ug/kg	22.6	7.23	6.36	NA	NA	178	24.8	6.41	NA	NA	NA
C3-Phenanthrenes/Anthracenes	ug/kg	125	< 0.3 U	2.08	NA	NA	261	59.6	< 0.3 U	NA	NA	NA
C4-Chrysenes	ug/kg	31.1	< 0.2 U	< 0.2 U	NA	NA	85.1	< 0.2 U	< 0.2 U	NA	NA	NA

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	39.5	11.0	< 0.7 U	NA	NA	180	114	< 0.7 U	NA	NA	NA
C4-Phenanthrenes/Anthracenes	ug/kg	111	< 0.3 U	< 0.3 U	NA	NA	167	58.1	< 0.3 U	NA	NA	NA
Perylene	ug/kg	330	321	13.9	NA	NA	200	334	158	NA	NA	NA
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	31.4 J	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	9.79	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	29.7	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	28.0	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	28.6	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	29.2	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	34.4	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	12.4	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	7.61 J	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	19.0 J	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	31.0 J	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	53.1	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	37.3	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	19.2	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	14.2	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	< 1.3 U	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	27.9	1.72	0.637	NA	NA	105	16.3	1.35	NA	NA	NA
C1-Naphthalenes	ug/kg	14.1	3.38	1.81	NA	NA	41.0	8.94	2.57	NA	NA	NA
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	93.7	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	< 1.3 U	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	78.8	1.59	1.22	NA	NA	213	39.7	1.51	NA	NA	NA
C2-Fluoranthenes/Pyrenes	ug/kg	109	< 0.5 U	< 0.5 U	NA	NA	165	< 0.5 U	< 0.5 U	NA	NA	NA
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	191	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	< 2.9 U	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	< 1.3 U	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	174	2.02	1.98	NA	NA	253	76.1	1.91	NA	NA	NA
C3-Fluoranthenes/Pyrenes	ug/kg	97.2	< 0.5 U	< 0.5 U	NA	NA	126	< 0.5 U	< 0.5 U	NA	NA	NA
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	185	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	< 1.3 U	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	182	2.14	1.21	NA	NA	209	70.4	1.56	NA	NA	NA
C4-Fluoranthenes/Pyrenes	ug/kg	117	< 0.5 U	< 0.5 U	NA	NA	137	< 0.5 U	< 0.5 U	NA	NA	NA
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	87.4	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	11.3	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	30.8	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	15.9 J	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	11.2	1.34	0.374	NA	NA	32.2	7.94	1.03	NA	NA	NA
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	54.5	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	37.2	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	17.5 J	NA	NA	NA	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	NA	NA	5275	NA	NA	NA	NA	NA
i-C15	mg/kg	NA	NA	NA	NA	NA	0.317	NA	NA	NA	NA	NA
i-C16	mg/kg	NA	NA	NA	NA	NA	0.622	NA	NA	NA	NA	NA
i-C18	mg/kg	NA	NA	NA	NA	NA	0.338	NA	NA	NA	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	NA	NA	0.052	NA	NA	NA	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	NA	NA	0.151	NA	NA	NA	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	NA	NA	0.406	NA	NA	NA	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	NA	NA	0.254	NA	NA	NA	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	NA	NA	0.592	NA	NA	NA	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	NA	NA	1.532 J	NA	NA	NA	NA	NA

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	NA	NA	0.543	NA	NA	NA	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	NA	NA	1.396 J	NA	NA	NA	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	NA	NA	2.445 J	NA	NA	NA	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	NA	NA	1.690	NA	NA	NA	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	NA	NA	0.259	NA	NA	NA	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	NA	NA	4.842	NA	NA	NA	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	NA	NA	0.598	NA	NA	NA	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	NA	NA	5.255	NA	NA	NA	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	NA	NA	0.886	NA	NA	NA	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	NA	NA	4.130	NA	NA	NA	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	NA	NA	0.549	NA	NA	NA	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	NA	NA	5.632	NA	NA	NA	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	NA	NA	1.231	NA	NA	NA	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	NA	NA	8.291	NA	NA	NA	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	NA	NA	1.436	NA	NA	NA	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	NA	NA	22.437	NA	NA	NA	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	NA	NA	2.901	NA	NA	NA	NA	NA
n-C33	mg/kg	NA	NA	NA	NA	NA	18.048	NA	NA	NA	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	NA	NA	0.473	NA	NA	NA	NA	NA
n-C35	mg/kg	NA	NA	NA	NA	NA	7.882	NA	NA	NA	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	NA	NA	0.479	NA	NA	NA	NA	NA
n-C37	mg/kg	NA	NA	NA	NA	NA	2.523	NA	NA	NA	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	NA	NA	0.693	NA	NA	NA	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	NA	NA	1.473	NA	NA	NA	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	NA	NA	< 0.019 U	NA	NA	NA	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	NA	NA	< 0.012 U	NA	NA	NA	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	NA	NA	1.174	NA	NA	NA	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	NA	NA	0.730	NA	NA	NA	NA	NA
Total Alkanes	mg/kg	NA	NA	NA	NA	NA	102	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	2328	NA	NA	NA	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	792	NA	NA	NA	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	NA	NA	1536	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 46 U	< 16 U	< 10 U	< 13 U	< 13 U	< 88 U	< 180 U	< 13 U	< 12 U	< 11 U	< 10 U
1,1-Dichloroethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1-Dichloroethene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,1-Dichloropropene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dichloroethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,2-Dichloropropane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,3-Dichloropropane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
1,4-Dichlorobenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
2,2-Dichloropropane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
2-Butanone (MEK)	ug/kg	34 J	< 16 U	< 10 U	< 13 U	< 13 U	42 J	87 J	< 13 U	< 12 U	< 11 U	< 10 U
2-Chlorotoluene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
2-Phenylbutane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
4-Chlorotoluene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 46 U	< 16 U	< 10 U	< 13 U	< 13 U	< 88 U	< 180 U	< 13 U	< 12 U	< 11 U	< 10 U
Acetone	ug/kg	220	18 J	< 21 U	< 26 U	< 26 U	290	630	19 J	10 J	9 J	< 20 U
Allyl chloride	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Benzene	ug/kg	4 J	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromobenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromochloromethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromodichloromethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Chemical	**Units**											
Bromomethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Carbon Tetrachloride	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Chlorobenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Chloroethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Chloroform	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Chloromethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Dibromochloromethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Dibromomethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Dichlorofluoromethane	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Ethylbenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Isopropylbenzene (Cumene)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
n-Butylbenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
n-Propylbenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Styrene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Tert-Butylbenzene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 UJ	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Tetrachloroethene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Tetrahydrofuran	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Toluene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Trichloroethene	ug/kg	< 23 U	< 8 U	< 5 U	6 J	2 J	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	2 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Vinyl Chloride	ug/kg	< 23 U	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U
Xylene (Total)	ug/kg	7 J	< 8 U	< 5 U	< 7 U	< 6 U	< 44 U	< 89 U	< 6 U	< 6 U	< 5 U	< 5 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
Sample Date		7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
Sample ID		SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	100	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	100	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve, 3350 micron, % passing	% passing	99.9	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve, 2360 micron, % passing	% passing	99.7	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve, 1180 micron, % passing	% passing	99.5	NA	NA	89.1	NA	NA	NA	NA	NA	99.4	NA
Sieve, 600 micron, % passing	% passing	99.1	NA	NA	79.4	NA	NA	NA	NA	NA	98.6	NA
Sieve, 300 micron, % passing	% passing	98.7	NA	NA	72.8	NA	NA	NA	NA	NA	96.8	NA
Sieve, 150 micron, % passing	% passing	97.8	NA	NA	67.9	NA	NA	NA	NA	NA	95.1	NA
Sieve, 75 micron, % passing	% passing	97.2	NA	NA	63.7	NA	NA	NA	NA	NA	92.6	NA
Sieve, 64 micron, % passing	% passing	93.0	NA	NA	63.5	NA	NA	NA	NA	NA	89.5	NA
Sieve, 50 micron, % passing	% passing	84.0	NA	NA	63.0	NA	NA	NA	NA	NA	83.0	NA
Sieve, 20 micron, % passing	% passing	64.0	NA	NA	53.0	NA	NA	NA	NA	NA	60.0	NA
Sieve, 5 micron, % passing	% passing	43.0	NA	NA	31.0	NA	NA	NA	NA	NA	37.0	NA
Sieve, 2 micron, % passing	% passing	28.0	NA	NA	23.0	NA	NA	NA	NA	NA	24.0	NA
Sieve, 1 micron, % passing	% passing	17.0	NA	NA	20.0	NA	NA	NA	NA	NA	15.0	NA
Metals												
Arsenic	mg/kg	10.1 J	12.9 J	3.50	10.6	3.14	2.74	NA	NA	NA	12.6	3.87
Barium	mg/kg	207	284	99.2	202	107	94.6	NA	NA	NA	191	101
Cadmium	mg/kg	< 3.73 U	< 4.05 U	< 0.678 U	0.254 J	< 0.667 U	< 0.639 U	NA	NA	NA	< 2.80 U	< 0.711 U
Chromium	mg/kg	28.0 J	42.4 J	14.1 J	26.5 J	17.4 J	15.5 J	NA	NA	NA	25.3	14.2
Lead	mg/kg	41.7	80.0	15.9	35.8	15.6	11.5	NA	NA	NA	35.3	14.8
Mercury	mg/kg	0.121 J	0.157 J	0.0412 J	0.0892 J	0.0397 J	0.0194 J	NA	NA	NA	0.0805 J	0.0385 J
Nickel	mg/kg	27.5	38.6	11.5	25.0	10.3	10.0	NA	NA	NA	23.3	9.56
Selenium	mg/kg	< 14.9 U	< 16.2 U	< 2.71 U	< 5.92 U	< 2.67 U	1.35 J	NA	NA	NA	< 11.2 U	< 2.84 U
Silver	mg/kg	< 3.73 U	< 4.05 U	< 0.678 U	< 1.48 U	< 0.667 U	< 0.639 U	NA	NA	NA	< 2.80 U	< 0.711 U
Vanadium	mg/kg	45.2	69.5	25.8	42.4	30.3	26.4	NA	NA	NA	41.9	24.8
Other												
Black Carbon	%	0.36 J	NA	NA	0.41 J	NA	NA	NA	NA	NA	0.23 J	NA
Percent Moisture	%	87.0	88.0	26.2	67.5	27.2	24.0	19.1	18.1	17.2	82.3	32.4
Total Organic Carbon	%	11.6	NA	NA	12.63	NA	NA	NA	NA	NA	6.68	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	18.2	5.46	2.33	23.3	3.25	1.19	NA	NA	NA	10.2	1.32
2-Methylnaphthalene	ug/kg	31.7	12.8	4.92	39.8	6.48	2.42	NA	NA	NA	19.7	2.92
Acenaphthene	ug/kg	6.17	6.17	1.67	4.66	0.702	0.337	NA	NA	NA	4.69	0.969
Acenaphthylene	ug/kg	10.4	3.98	0.961	9.62	0.542	0.052	NA	NA	NA	8.89	0.490
Anthracene	ug/kg	18.8	8.77	1.86	15.6	0.634	< 0.1 U	NA	NA	NA	13.9	0.594
Benzo(a)Anthracene	ug/kg	23.5	8.97	2.14	14.5	1.32	< 0.2 U	NA	NA	NA	10.5	0.671
Benzo(a)Pyrene	ug/kg	26.5	10.9	1.87	16.3	< 0.1 U	< 0.1 U	NA	NA	NA	10.5	0.565
Benzo(b)Fluoranthene	ug/kg	104	43.8	10.2	62.1	5.79	0.227	NA	NA	NA	43.9	2.86
Benzo(g,h,i)Perylene	ug/kg	66.2	33.6	3.08	37.5	1.93	< 0.1 U	NA	NA	NA	45.7	1.22
Benzo(j)+(k)Fluoranthene	ug/kg	36.8	11.8	2.73	12.1	0.831	0.082 J	NA	NA	NA	13.1	0.721
Chrysene/Triphenylene	ug/kg	57.7	56.2	7.02	31.5	4.47	< 0.1 U	NA	NA	NA	27.9	2.14
Dibenz(a,h)Anthracene	ug/kg	8.97	7.3	8.77	9.01	1.19	< 0.1 U	NA	NA	NA	11.2	0.949
Fluoranthene	ug/kg	76.3	33.2	11.6	42.3	4.82	0.763	NA	NA	NA	31.3	4.25
Fluorene	ug/kg	26.0	15.7	9.55	22.6	4.73	3.43	NA	NA	NA	23.5	8.45
Indeno[1,2,3-cd]pyrene	ug/kg	32.9	17.0	3.33	30.4	2.18	< 0.1 U	NA	NA	NA	45.4	2.50
Naphthalene	ug/kg	15.3	10.9	5.80	29.6	9.04	3.26	NA	NA	NA	16.0	3.21
Phenanthrene	ug/kg	90.6	46.1	35.5	54.9	11.3	7.83	NA	NA	NA	49.1	22.5
Pyrene	ug/kg	58.2	22.6	5.83	37.1	3.58	0.387	NA	NA	NA	24.4	2.39
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	59.9	38.2	4.72	29.0	< 0.2 U	< 0.2 U	NA	NA	NA	20.2	1.22
C1-Chrysenes	ug/kg	157	369	< 0.2 U	74.5	< 0.2 U	< 0.2 U	NA	NA	NA	176	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	86.7	73.5	7.61	34.2	3.21	< 0.5 U	NA	NA	NA	29.7	2.13
C1-Fluorenes	ug/kg	34.2	11.3	5.44	17.4	2.48	1.50	NA	NA	NA	17.7	3.36
C1-Phenanthrenes/Anthracenes	ug/kg	97.8	42.2	12.1	35.7	6.53	3.05	NA	NA	NA	40.7	7.69
C2-Chrysenes	ug/kg	149	219	< 0.2 U	68.7	< 0.2 U	< 0.2 U	NA	NA	NA	55.0	< 0.2 U
C2-Fluorenes	ug/kg	91.9	49.8	15.2	37.6	5.79	< 0.4 U	NA	NA	NA	52.1	< 0.4 U
C2-Naphthalenes	ug/kg	84.0	28.9	9.31	71.7	8.35	3.82	NA	NA	NA	47.9	8.52
C2-Phenanthrenes/Anthracenes	ug/kg	165	93.5	14.8	45.3	7.19	< 0.3 U	NA	NA	NA	73.7	5.81
C3-Chrysenes	ug/kg	132	164	< 0.2 U	54.0	< 0.2 U	< 0.2 U	NA	NA	NA	45.9	< 0.2 U
C3-Fluorenes	ug/kg	124	49.0	11.3	43.5	5.33	< 0.4 U	NA	NA	NA	51.4	< 0.4 U
C3-Naphthalenes	ug/kg	122	29.7	9.54	71.5	9.42	7.19	NA	NA	NA	53.3	9.31
C3-Phenanthrenes/Anthracenes	ug/kg	171	129	7.57	54.6	2.91	< 0.3 U	NA	NA	NA	80.9	2.90
C4-Chrysenes	ug/kg	76.8	79.5	< 0.2 U	35.3	< 0.2 U	< 0.2 U	NA	NA	NA	22.7	< 0.2 U

	Location	SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
	Sample ID	SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	103	36.3	12.9	40.5	8.10	< 0.7 U	NA	NA	NA	54.1	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	163	122	9.19	46.7	2.68	< 0.3 U	NA	NA	NA	86.9	< 0.3 U
Perylene	ug/kg	305	562 EJ	337	120	297	19.3	NA	NA	NA	266	129
Phenanthrene, 2-methyl-	ug/kg	35.8	NA	NA	11.6 J	NA	NA	NA	NA	NA	13.9	NA
1,1-Biphenyl	ug/kg	7.54	NA	NA	8.68	NA	NA	NA	NA	NA	6.63	NA
18a-Oleanane	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	21.0	NA	NA	6.44	NA	NA	NA	NA	NA	8.39	NA
1-Methylfluorene	ug/kg	19.2	NA	NA	9.49	NA	NA	NA	NA	NA	9.46	NA
1-Methylphenanthrene	ug/kg	27.4	NA	NA	8.39	NA	NA	NA	NA	NA	9.38	NA
2,3,5-Trimethylnaphthalene	ug/kg	16.6	NA	NA	8.48	NA	NA	NA	NA	NA	5.92	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	33.2	NA	NA	10.5	NA	NA	NA	NA	NA	11.6	NA
2-Methylanthracene	ug/kg	10.8	NA	NA	5.51	NA	NA	NA	NA	NA	7.78	NA
2-Methylfluoranthene	ug/kg	7.20	NA	NA	4.84	NA	NA	NA	NA	NA	3.50	NA
3,6-Dimethylphenanthrene	ug/kg	14.5	NA	NA	5.74	NA	NA	NA	NA	NA	5.13	NA
3-Methylphenanthrene (3MP)	ug/kg	26.0	NA	NA	11.4	NA	NA	NA	NA	NA	11.4	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	42.2	NA	NA	13.5	NA	NA	NA	NA	NA	14.5	NA
9/4-Methylphenanthrene (9MP)	ug/kg	36.3	NA	NA	9.84	NA	NA	NA	NA	NA	12.6	NA
Benzo(a)Fluoranthene	ug/kg	13.0	NA	NA	11.1	NA	NA	NA	NA	NA	15.8	NA
Benzo(b)fluorene	ug/kg	14.3	NA	NA	8.50	NA	NA	NA	NA	NA	6.61	NA
Benzothiophene	ug/kg	1.78	NA	NA	1.72	NA	NA	NA	NA	NA	0.91	NA
C1-Benzo(b)thiophenes	ug/kg	12.0	NA	NA	< 0.9 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C1-Decalins	ug/kg	28.4	NA	NA	5.64	NA	NA	NA	NA	NA	< 0.3 U	NA
C1-Dibenzothiophenes	ug/kg	84.7	26.3	2.86	25.5	2.21	< 0.1 U	NA	NA	NA	24.9	< 1.04 UB
C1-Naphthalenes	ug/kg	29.8	11.2	4.45	41.0	6.34	2.35	NA	NA	NA	19.4	2.83
C1-Naphthobenzothiophenes	ug/kg	144	NA	NA	45.1	NA	NA	NA	NA	NA	57.7	NA
C20-TAS	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C21-TAS	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C26(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C27(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C28(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C28(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 2.9 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C29-Hopane	ug/kg	< 0.6 U	NA	NA	103	NA	NA	NA	NA	NA	< 0.6 U	NA
C2-Benzo(b)thiophenes	ug/kg	27.8	NA	NA	< 0.9 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C2-Decalins	ug/kg	53.2	NA	NA	< 1.3 U	NA	NA	NA	NA	NA	< 0.3 U	NA
C2-Dibenzothiophenes	ug/kg	172	72.2	5.44	36.4	2.38	< 0.2 U	NA	NA	NA	< 0.2 U	< 1.54 UB
C2-Fluoranthenes/Pyrenes	ug/kg	174	160	< 0.5 U	54.9	< 0.5 U	< 0.5 U	NA	NA	NA	< 0.5 U	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	236	NA	NA	77.7	NA	NA	NA	NA	NA	99.6	NA
C30-Hopane	ug/kg	< 0.6 U	NA	NA	157	NA	NA	NA	NA	NA	< 0.6 U	NA
C3-Benzo(b)thiophenes	ug/kg	47.3	NA	NA	< 0.9 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C3-Decalins	ug/kg	84.1	NA	NA	< 1.3 U	NA	NA	NA	NA	NA	< 0.3 U	NA
C3-Dibenzothiophenes	ug/kg	236	145	7.50	55.8	2.43	< 0.2 U	NA	NA	NA	< 0.2 U	< 2.44 UB
C3-Fluoranthenes/Pyrenes	ug/kg	139	171	< 0.5 U	34.8	< 0.5 U	< 0.5 U	NA	NA	NA	< 0.5 U	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	250	NA	NA	76.7	NA	NA	NA	NA	NA	87.0	NA
C4-Benzo(b)thiophenes	ug/kg	45.3	NA	NA	< 0.9 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C4-Decalins	ug/kg	106	NA	NA	< 1.3 U	NA	NA	NA	NA	NA	< 0.3 U	NA
C4-Dibenzothiophenes	ug/kg	206	137	5.05	40.1	1.77	< 0.2 U	NA	NA	NA	< 0.2 U	2.41
C4-Fluoranthenes/Pyrenes	ug/kg	175	189	< 0.5 U	48.4	< 0.5 U	< 0.5 U	NA	NA	NA	< 0.5 U	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	114	NA	NA	32.8	NA	NA	NA	NA	NA	49.6	NA
Carbazole	ug/kg	9.94	NA	NA	6.84	NA	NA	NA	NA	NA	4.86	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	61.4	NA	NA	52.4	NA	NA	NA	NA	NA	< 0.1 U	NA
Dibenzofuran	ug/kg	15.4	NA	NA	13.0	NA	NA	NA	NA	NA	16.2	NA
Dibenzothiophene	ug/kg	37.2	11.8	2.75	14.0	1.57	0.276	NA	NA	NA	11.2	1.12
Naphthalene, 2,6-dimethyl-	ug/kg	42.3	NA	NA	33.5	NA	NA	NA	NA	NA	13.8	NA
Naphthobenzothiophene	ug/kg	48.3	NA	NA	17.9	NA	NA	NA	NA	NA	19.7	NA
Retene	ug/kg	23.0	NA	NA	7.20	NA	NA	NA	NA	NA	18.2	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	6062	NA	NA	4225	NA	NA	NA	NA	NA	2950	NA
i-C15	mg/kg	0.186	NA	NA	0.067	NA	NA	NA	NA	NA	0.033	NA
i-C16	mg/kg	0.644	NA	NA	0.223	NA	NA	NA	NA	NA	0.156	NA
i-C18	mg/kg	0.255	NA	NA	0.038	NA	NA	NA	NA	NA	0.089	NA
n-C10 (n-Decane)	mg/kg	0.032	NA	NA	0.033	NA	NA	NA	NA	NA	< 0.021 U	NA
n-C11 (n-Undecane)	mg/kg	0.108	NA	NA	0.114	NA	NA	NA	NA	NA	0.027	NA
n-C12 (n-Dodecane)	mg/kg	0.114	NA	NA	0.200	NA	NA	NA	NA	NA	0.095	NA
n-C13 (n-Tridecane)	mg/kg	0.228	NA	NA	0.098	NA	NA	NA	NA	NA	0.049	NA
n-C14 (n-Tetradecane)	mg/kg	0.248	NA	NA	0.274	NA	NA	NA	NA	NA	0.171	NA
n-C15 (Pentadecane)	mg/kg	1.27	NA	NA	0.203	NA	NA	NA	NA	NA	0.480	NA

	Location	SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
	Sample ID	SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	0.353	NA	NA	0.199	NA	NA	NA	NA	NA	0.224	NA
n-C17 (Heptadecane)	mg/kg	1.90	NA	NA	1.349	NA	NA	NA	NA	NA	0.467	NA
n-C18 (Octadecane)	mg/kg	2.48	NA	NA	1.650	NA	NA	NA	NA	NA	1.088	NA
n-C19 (Nonadecane)	mg/kg	2.13	NA	NA	1.531	NA	NA	NA	NA	NA	0.693	NA
n-C20 (Eicosane)	mg/kg	0.325	NA	NA	0.143	NA	NA	NA	NA	NA	0.177	NA
n-C21 (Heneicosane)	mg/kg	5.58	NA	NA	5.639	NA	NA	NA	NA	NA	3.344	NA
n-C22 (Docosane)	mg/kg	0.760	NA	NA	0.450	NA	NA	NA	NA	NA	0.301	NA
n-C23 (Tricosane)	mg/kg	12.7	NA	NA	4.571	NA	NA	NA	NA	NA	3.579	NA
n-C24 (Tetracosane)	mg/kg	1.46	NA	NA	0.823	NA	NA	NA	NA	NA	0.493	NA
n-C25 (Pentacosane)	mg/kg	8.51	NA	NA	4.257	NA	NA	NA	NA	NA	3.148	NA
n-C26 (Hexacosane)	mg/kg	0.861	NA	NA	1.765	NA	NA	NA	NA	NA	0.460	NA
n-C27 (Heptacosane)	mg/kg	8.66	NA	NA	5.974	NA	NA	NA	NA	NA	4.474	NA
n-C28 (Octacosane)	mg/kg	1.07	NA	NA	1.328	NA	NA	NA	NA	NA	1.119	NA
n-C29 (Nonacosane)	mg/kg	11.5	NA	NA	8.618	NA	NA	NA	NA	NA	5.050	NA
n-C30 (n-Triacontane)	mg/kg	0.572	NA	NA	1.336	NA	NA	NA	NA	NA	0.895	NA
n-C31 (Hentriacontane)	mg/kg	9.29	NA	NA	15.071	NA	NA	NA	NA	NA	6.956	NA
n-C32 (Dotriacontane)	mg/kg	0.928	NA	NA	0.876	NA	NA	NA	NA	NA	2.271	NA
n-C33	mg/kg	7.49	NA	NA	17.344	NA	NA	NA	NA	NA	14.110	NA
n-C34 (Tetratriacontane)	mg/kg	0.712	NA	NA	0.717	NA	NA	NA	NA	NA	1.235	NA
n-C35	mg/kg	3.75	NA	NA	8.906	NA	NA	NA	NA	NA	20.656	NA
n-C36 (Hexatriacontane)	mg/kg	0.734	NA	NA	0.450	NA	NA	NA	NA	NA	0.780	NA
n-C37	mg/kg	3.73	NA	NA	2.818	NA	NA	NA	NA	NA	1.823	NA
n-C38 (Octatriacontane)	mg/kg	0.707	NA	NA	0.381	NA	NA	NA	NA	NA	0.289	NA
n-C39 (Nonatriacontane)	mg/kg	2.30	NA	NA	1.138	NA	NA	NA	NA	NA	0.730	NA
n-C40 (Tetracontane)	mg/kg	< 0.019 U	NA	NA	0.145	NA	NA	NA	NA	NA	0.191	NA
n-C9 (Nonane)	mg/kg	0.020	NA	NA	< 0.012 U	NA	NA	NA	NA	NA	< 0.012 U	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	1.49	NA	NA	0.765	NA	NA	NA	NA	NA	0.357	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	1.02	NA	NA	0.326	NA	NA	NA	NA	NA	0.244	NA
Total Alkanes	mg/kg	94.1	NA	NA	89.8	NA	NA	NA	NA	NA	76.3	NA
Total Petroleum Hydrocarbons	mg/kg	2225	NA	NA	1548	NA	NA	NA	NA	NA	959	NA
Total Resolveable Hydrocarbons	mg/kg	1091	NA	NA	857	NA	NA	NA	NA	NA	536	NA
Unresolved Complex Mixture	mg/kg	1133	NA	NA	691	NA	NA	NA	NA	NA	423	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,1,1-Trichloroethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,1,2,2-Tetrachloroethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,1,2-Trichloroethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 110 U	< 120 U	< 12 U	< 47 U	< 13 U	< 13 U	< 10 U	< 10 U	< 11 U	< 76 U	< 14 U
1,1-Dichloroethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,1-Dichloroethene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,1-Dichloropropene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2,3-Trichlorobenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2,3-Trichloropropane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2,4-Trichlorobenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2,4-Trimethylbenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	8 J	< 7 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2-Dibromoethane (EDB)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2-Dichlorobenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2-Dichloroethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,2-Dichloropropane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,3,5-Trimethylbenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	8 J	< 7 U
1,3-Dichlorobenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,3-Dichloropropane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
1,4-Dichlorobenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
2,2-Dichloropropane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
2-Butanone (MEK)	ug/kg	54 J	< 120 U	< 12 U	27 J	< 13 U	< 13 U	< 10 U	< 10 U	< 11 U	42 J	< 14 U
2-Chlorotoluene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
2-Phenylbutane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
4-Chlorotoluene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 110 U	< 120 U	< 12 U	< 47 U	< 13 U	< 13 U	< 10 U	< 10 U	< 11 U	< 76 U	< 14 U
Acetone	ug/kg	370	290	17 J	180	17 J	< 25 U	< 20 U	< 21 U	< 21 U	250	14 J
Allyl chloride	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Benzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Bromobenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Bromochloromethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Bromodichloromethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Bromoform (Tribromomethane)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U

	Location	SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
	Sample ID	SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Chemical	**Units**											
Bromomethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Carbon Tetrachloride	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Chlorobenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Chloroethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Chloroform	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Chloromethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
cis-1,2-Dichloroethene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
cis-1,3-Dichloropropene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Dibromochloromethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Dibromomethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Dichlorofluoromethane	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Diethyl ether (Ethyl ether)	ug/kg	< 56 UJ	< 59 UJ	< 6 UJ	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Ethylbenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Hexachloro-1,3-Butadiene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Isopropylbenzene (Cumene)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Methylene Chloride (Dichloromethane)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Methyl-tert-butyl ether	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
n-Butylbenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
n-Propylbenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
p-Isopropyltoluene (Cymene)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Styrene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Tert-Butylbenzene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Tetrachloroethene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Tetrahydrofuran	ug/kg	< 56 U	< 59 UJ	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Toluene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
trans-1,2-Dichloroethene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
trans-1,3-Dichloropropene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Trichloroethene	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	23 J	3 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Vinyl Chloride	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U
Xylene (Total)	ug/kg	< 56 U	< 59 U	< 6 U	< 23 U	< 7 U	< 6 U	< 5 U	< 5 U	< 5 U	< 38 U	< 7 U

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	NA	100	NA	NA	NA	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	NA	99.6	NA	NA	NA	NA	NA	100	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	NA	99.5	NA	NA	NA	NA	NA	100	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	NA	99.1	NA	NA	NA	NA	NA	100	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	NA	98.0	NA	NA	NA	NA	NA	98.9	NA
Sieve, 600 micron, % passing	% passing	NA	NA	NA	93.2	NA	NA	NA	NA	NA	98.2	NA
Sieve, 300 micron, % passing	% passing	NA	NA	NA	89.2	NA	NA	NA	NA	NA	96.8	NA
Sieve, 150 micron, % passing	% passing	NA	NA	NA	86.0	NA	NA	NA	NA	NA	95.4	NA
Sieve, 75 micron, % passing	% passing	NA	NA	NA	82.7	NA	NA	NA	NA	NA	94.0	NA
Sieve, 64 micron, % passing	% passing	NA	NA	NA	76.0	NA	NA	NA	NA	NA	92.0	NA
Sieve, 50 micron, % passing	% passing	NA	NA	NA	58.0	NA	NA	NA	NA	NA	87.0	NA
Sieve, 20 micron, % passing	% passing	NA	NA	NA	40.0	NA	NA	NA	NA	NA	73.0	NA
Sieve, 5 micron, % passing	% passing	NA	NA	NA	24.0	NA	NA	NA	NA	NA	50.0	NA
Sieve, 2 micron, % passing	% passing	NA	NA	NA	12.0	NA	NA	NA	NA	NA	37.0	NA
Sieve, 1 micron, % passing	% passing	NA	NA	NA	2.0	NA	NA	NA	NA	NA	28.0	NA
Metals												
Arsenic	mg/kg	3.62	NA	NA	14.0	17.0	3.89	NA	NA	NA	3.81 J	5.24 J
Barium	mg/kg	74.4	NA	NA	177	263	96.5	NA	NA	NA	104	263
Cadmium	mg/kg	< 0.662 U	NA	NA	< 3.34 U	< 2.64 U	< 0.648 U	NA	NA	NA	< 1.14 U	< 1.74 U
Chromium	mg/kg	11.6	NA	NA	23.6	35.3	14.0	NA	NA	NA	13.3 J	34.8 J
Lead	mg/kg	11.8	NA	NA	32.8	51.2	13.7	NA	NA	NA	17.8	37.4
Mercury	mg/kg	0.0256 J	NA	NA	0.0839 J	0.123 J	0.0351 J	NA	NA	NA	0.0528 J	< 0.331 U
Nickel	mg/kg	7.83	NA	NA	26.4	34.2	9.86	NA	NA	NA	11.9	29.2
Selenium	mg/kg	< 2.65 U	NA	NA	< 13.4 U	< 10.5 U	< 2.59 U	NA	NA	NA	< 4.56 U	< 6.97 U
Silver	mg/kg	< 0.662 U	NA	NA	< 3.34 U	< 2.64 U	< 0.648 U	NA	NA	NA	< 1.14 U	< 1.74 U
Vanadium	mg/kg	20.5	NA	NA	36.3	55.6	22.9	NA	NA	NA	22.5	59.3
Other												
Black Carbon	%	NA	NA	NA	0.42 J	NA	NA	NA	NA	NA	< 0.19 U	NA
Percent Moisture	%	24.5	24.9	18.7	85.2	81.4	24.4	26.8	24.0	17.8	56.1	71.3
Total Organic Carbon	%	NA	NA	NA	13.3	NA	NA	NA	NA	NA	3.23	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.236 J	0.139 J	0.173 J	18.6	6.30	0.959	0.349 J	< 0.5 UB	0.292 J	7.96	1.10
2-Methylnaphthalene	ug/kg	0.544 J	0.351 J	0.296 J	37.6	13.6	1.97	0.664 J	0.345 J	0.529 J	13.6	2.40
Acenaphthene	ug/kg	0.50	< 0.1 U	< 0.1 U	8.68	3.65	0.569	< 0.1 U	< 0.1 U	< 0.1 U	1.73	0.62
Acenaphthylene	ug/kg	0.04	< 0 U	< 0 U	20.0	3.42	0.350	< 0 U	< 0.04 U	< 0 U	4.75	0.40
Anthracene	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	34.8	5.10	0.325	< 0.1 U	< 0.1 U	< 0.1 U	8.09	1.03
Benzo(a)Anthracene	ug/kg	0.154 J	< 0.2 U	< 0.2 U	27.8	5.49	0.536	< 0.2 U	< 0.2 U	< 0.2 U	10.2	1.08
Benzo(a)Pyrene	ug/kg	0.167	< 0.1 U	< 0.1 U	32.3	5.00	0.512	< 0.1 U	< 0.1 U	< 0.1 U	9.25	1.02
Benzo(b)Fluoranthene	ug/kg	0.330	< 0.2 U	< 0.2 U	124	27.3	2.74	< 0.2 U	< 0.2 U	< 0.2 U	41.4	3.67
Benzo(g,h,i)Perylene	ug/kg	0.276	< 0.1 U	< 0.1 U	152	23.2	0.837	< 0.1 U	0.076 J	< 0.1 U	28.6	1.74
Benzo(j)+(k)Fluoranthene	ug/kg	0.126	< 0.1 U	< 0.1 U	39.8	6.06	0.765	< 0.1 U	< 0.1 U	< 0.1 U	11.0	0.818
Chrysene/Triphenylene	ug/kg	0.274	< 0.1 U	< 0.1 U	72.4	15.4	2.26	< 0.1 U	< 0.1 U	< 0.1 U	21.2	3.06
Dibenz(a,h)Anthracene	ug/kg	0.300	< 0.1 U	< 0.1 U	19.0	3.62	0.428	< 0.1 U	0.053 J	< 0.1 U	10.5	0.619
Fluoranthene	ug/kg	1.66	1.00	0.971	78.8	21.0	3.18	2.56	1.83	1.98	33.9	6.48
Fluorene	ug/kg	2.81	1.53	1.84	47.9	22.1	5.54	4.33	3.18	4.33	8.50	3.36
Indeno[1,2,3-cd]pyrene	ug/kg	0.345	< 0.1 U	< 0.1 U	106	15.0	1.07	< 0.1 U	0.063	< 0.1 U	23.1	1.54
Naphthalene	ug/kg	1.03	< 0.855 UB	< 0.687 UB	38.0	12.8	2.83	1.13	< 0.856 UB	0.90	5.68	1.87
Phenanthrene	ug/kg	9.46	5.42	6.72	116	55.3	15.3	13.2	12.4	14.3	36.6	16.2
Pyrene	ug/kg	0.719	0.384	0.303	71.4	12.9	1.67	0.668	< 0.42 UB	0.366	26.1	3.41
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.219	< 0.2 U	< 0.2 U	60.8	13.3	1.04	< 0.2 U	< 0.2 U	< 0.2 U	21.5	2.20
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	128	45.5	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	78.8	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	0.361 J	0.312 J	< 0.5 U	100	18.4	1.61	< 0.5 U	< 0.5 U	< 0.5 U	40.8	4.31
C1-Fluorenes	ug/kg	1.41	0.952	0.974	40.9	11.4	2.56	2.18	1.52	2.23	17.9	2.94
C1-Phenanthrenes/Anthracenes	ug/kg	4.96	< 0.1 U	< 0.1 U	841	26.3	6.60	5.50	6.12	5.86	56.0	9.93
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	116	25.4	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	43.3	< 0.2 U
C2-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	164	28.6	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	51.3	9.70
C2-Naphthalenes	ug/kg	1.61	1.69	1.06	104	33.0	4.94	2.47	1.08	1.99	43.0	5.57
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	277	33.0	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	92.9	14.7
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	99.3	22.8	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	33.3	< 0.2 U
C3-Fluorenes	ug/kg	< 0.4 U	< 0.4 U	< 0.4 U	176	28.9	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	60.1	12.2
C3-Naphthalenes	ug/kg	3.19	< 0.7 U	< 0.7 U	144	43.5	6.21	< 0.7 U	< 0.7 U	< 0.7 U	61.1	7.83
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	305	35.7	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	113	9.83
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.7 U	15.6	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	33.0	< 0.2 U

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	< 0.7 U	177	28.2	6.27	< 0.7 U	< 0.7 U	< 0.7 U	60.3	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	< 0.3 U	< 0.3 U	247	28.3	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	92.4	9.76
Perylene	ug/kg	25.4	14.7	0.263 J	230	640 EJ	116	14.7	0.690 J	0.17 J	365	49.1
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	223	NA	NA	NA	NA	NA	21.1	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	11.9	NA	NA	NA	NA	NA	4.86	NA
18a-Oleanane	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	41.0	NA	NA	NA	NA	NA	13.8	NA
1-Methylfluorene	ug/kg	NA	NA	NA	29.6	NA	NA	NA	NA	NA	11.0	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	216	NA	NA	NA	NA	NA	13.5	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	17.0	NA	NA	NA	NA	NA	6.19	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	44.5	NA	NA	NA	NA	NA	20.9	NA
2-Methylanthracene	ug/kg	NA	NA	NA	217	NA	NA	NA	NA	NA	7.07	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	9.71	NA	NA	NA	NA	NA	4.64	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	10.6	NA	NA	NA	NA	NA	7.10	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	242	NA	NA	NA	NA	NA	15.3	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	64.2	NA	NA	NA	NA	NA	27.2	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	240	NA	NA	NA	NA	NA	21.2	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	< 0.3 U	NA	NA	NA	NA	NA	6.65	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	19.4	NA	NA	NA	NA	NA	8.02	NA
Benzothiophene	ug/kg	NA	NA	NA	1.85	NA	NA	NA	NA	NA	0.864	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C1-Decalins	ug/kg	NA	NA	NA	22.4	NA	NA	NA	NA	NA	< 0.3 U	NA
C1-Dibenzothiophenes	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	108	11.9	< 0.599 UB	< 0.1 U	< 0.1 U	< 0.1 U	54.5	4.47
C1-Naphthalenes	ug/kg	0.521 J	0.327 J	0.311 J	36.5	13.3	1.95	0.674 J	0.366 J	0.55 J	12.9	2.10
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	144	NA	NA	NA	NA	NA	47.1	NA
C20-TAS	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C21-TAS	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C29-Hopane	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C2-Decalins	ug/kg	NA	NA	NA	< 0.8 U	NA	NA	NA	NA	NA	< 0.3 U	NA
C2-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.306 UB	272	27.5	< 0.482 UB	< 0.2 U	< 0.2 U	< 0.2 U	111	8.20
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	146	28.3	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	62.3	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	223	NA	NA	NA	NA	NA	87.4	NA
C30-Hopane	ug/kg	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	< 0.6 U	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C3-Decalins	ug/kg	NA	NA	NA	< 0.8 U	NA	NA	NA	NA	NA	< 0.3 U	NA
C3-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.276 UB	282	39.6	< 0.493 UB	< 0.2 U	< 0.2 U	< 0.2 U	121	11.7
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	107	21.3	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	39.6	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	213	NA	NA	NA	NA	NA	72.9	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	< 0.2 U	NA
C4-Decalins	ug/kg	NA	NA	NA	< 0.8 U	NA	NA	NA	NA	NA	< 0.3 U	NA
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	261	39.6	0.531	< 0.2 U	< 0.2 U	< 0.2 U	116	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	108	25.2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	64.1	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	108	NA	NA	NA	NA	NA	33.9	NA
Carbazole	ug/kg	NA	NA	NA	13.0	NA	NA	NA	NA	NA	6.88	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	64.9	NA	NA	NA	NA	NA	15.1	NA
Dibenzofuran	ug/kg	NA	NA	NA	29.3	NA	NA	NA	NA	NA	5.29	NA
Dibenzothiophene	ug/kg	< 0.224 UB	< 0.171 UB	< 0.1 U	34.7	6.22	< 0.679 UB	< 0.283 UB	< 0.1 U	< 0.1 U	21.2	1.97
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	30.1	NA	NA	NA	NA	NA	19.1	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	55.6	NA	NA	NA	NA	NA	23.1	NA
Retene	ug/kg	NA	NA	NA	19.3	NA	NA	NA	NA	NA	11.1	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	6329	NA	NA	NA	NA	NA	2244	NA
i-C15	mg/kg	NA	NA	NA	0.127	NA	NA	NA	NA	NA	0.051	NA
i-C16	mg/kg	NA	NA	NA	0.495	NA	NA	NA	NA	NA	0.243	NA
i-C18	mg/kg	NA	NA	NA	0.130	NA	NA	NA	NA	NA	0.087	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	< 0.063 U	NA	NA	NA	NA	NA	0.010 J	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	0.055	NA	NA	NA	NA	NA	0.020	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	0.168	NA	NA	NA	NA	NA	0.024	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	0.101 J	NA	NA	NA	NA	NA	0.039 J	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	0.293	NA	NA	NA	NA	NA	0.074	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	0.949	NA	NA	NA	NA	NA	1.03	NA

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	0.390	NA	NA	NA	NA	NA	0.115	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	1.258	NA	NA	NA	NA	NA	0.510	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	2.142	NA	NA	NA	NA	NA	1.02	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	1.768	NA	NA	NA	NA	NA	0.671	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	0.447	NA	NA	NA	NA	NA	0.187	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	4.919	NA	NA	NA	NA	NA	2.57	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	0.671	NA	NA	NA	NA	NA	0.252	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	15.096	NA	NA	NA	NA	NA	2.45	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	1.232	NA	NA	NA	NA	NA	0.374	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	10.154	NA	NA	NA	NA	NA	1.89	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	1.014	NA	NA	NA	NA	NA	0.253	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	12.193	NA	NA	NA	NA	NA	2.54	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	2.160	NA	NA	NA	NA	NA	0.638	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	12.368	NA	NA	NA	NA	NA	4.57	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	0.454	NA	NA	NA	NA	NA	0.313	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	16.471	NA	NA	NA	NA	NA	4.22	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	1.140	NA	NA	NA	NA	NA	0.511	NA
n-C33	mg/kg	NA	NA	NA	17.618	NA	NA	NA	NA	NA	3.81	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	1.903	NA	NA	NA	NA	NA	0.587	NA
n-C35	mg/kg	NA	NA	NA	5.238	NA	NA	NA	NA	NA	1.68	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	0.432	NA	NA	NA	NA	NA	0.288	NA
n-C37	mg/kg	NA	NA	NA	2.071	NA	NA	NA	NA	NA	1.15	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	0.795	NA	NA	NA	NA	NA	0.200	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	2.333	NA	NA	NA	NA	NA	0.369	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	0.131	NA	NA	NA	NA	NA	< 0.019 U	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	< 0.037 U	NA	NA	NA	NA	NA	< 0.012 U	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	0.991	NA	NA	NA	NA	NA	0.421	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	0.632	NA	NA	NA	NA	NA	0.307	NA
Total Alkanes	mg/kg	NA	NA	NA	118	NA	NA	NA	NA	NA	33.5	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	2275	NA	NA	NA	NA	NA	770	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	1140	NA	NA	NA	NA	NA	404	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	1135	NA	NA	NA	NA	NA	366	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,1,1-Trichloroethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,1,2,2-Tetrachloroethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,1,2-Trichloroethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 13 U	< 14 U	< 17 U	< 91 U	< 63 U	< 12 U	< 13 U	< 13 U	< 10 U	< 23 U	< 49 U
1,1-Dichloroethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,1-Dichloroethene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,1-Dichloropropene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2,3-Trichlorobenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2,3-Trichloropropane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2,4-Trichlorobenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2,4-Trimethylbenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	9 J
1,2-Dibromo-3-Chloropropane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2-Dibromoethane (EDB)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2-Dichlorobenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2-Dichloroethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,2-Dichloropropane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,3,5-Trimethylbenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	10 J
1,3-Dichlorobenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,3-Dichloropropane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
1,4-Dichlorobenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
2,2-Dichloropropane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
2-Butanone (MEK)	ug/kg	< 13 U	< 14 U	< 17 U	39 J	< 63 U	< 12 U	< 13 U	< 13 U	< 10 U	< 23 U	< 49 U
2-Chlorotoluene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
2-Phenylbutane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
4-Chlorotoluene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 13 U	< 14 U	< 17 U	< 91 U	< 63 U	< 12 U	< 13 U	< 13 U	< 10 U	< 23 U	< 49 U
Acetone	ug/kg	< 25 U	< 28 U	< 34 U	270	150	13 J	9 J	< 26 U	< 20 U	41 J	120
Allyl chloride	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Benzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Bromobenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Bromochloromethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Bromodichloromethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Bromoform (Tribromomethane)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Chemical	**Units**											
Bromomethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Carbon Tetrachloride	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Chlorobenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Chloroethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Chloroform	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Chloromethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
cis-1,2-Dichloroethene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
cis-1,3-Dichloropropene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Dibromochloromethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Dibromomethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Dichlorofluoromethane	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Diethyl ether (Ethyl ether)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 UJ	< 25 UJ
Ethylbenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Hexachloro-1,3-Butadiene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Isopropylbenzene (Cumene)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Methylene Chloride (Dichloromethane)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Methyl-tert-butyl ether	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
n-Butylbenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
n-Propylbenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
p-Isopropyltoluene (Cymene)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Styrene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Tert-Butylbenzene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 UJ	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Tetrachloroethene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Tetrahydrofuran	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Toluene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
trans-1,2-Dichloroethene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
trans-1,3-Dichloropropene	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Trichloroethene	ug/kg	5 J	4 J	6 J	19 J	15 J	3 J	3 J	2 J	2 J	< 12 U	< 25 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Vinyl Chloride	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U
Xylene (Total)	ug/kg	< 6 U	< 7 U	< 8 U	< 45 U	< 32 U	< 6 U	< 7 U	< 7 U	< 5 U	< 12 U	< 25 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	NA	100	NA	NA	NA	100	NA	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	NA	100	NA	NA	NA	100	NA	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	NA	100	NA	NA	NA	100	NA	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	NA	100	NA	NA	NA	100	NA	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	NA	100	NA	NA	NA	100	NA	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	NA	99.8	NA	NA	NA	100	NA	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	NA	99.4	NA	NA	NA	92.4	NA	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	NA	98.7	NA	NA	NA	81.3	NA	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	NA	97.6	NA	NA	NA	72.3	NA	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	NA	96.5	NA	NA	NA	68.7	NA	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	NA	94.2	NA	NA	NA	66.3	NA	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	NA	91.0	NA	NA	NA	65.0	NA	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	NA	83.0	NA	NA	NA	62.0	NA	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	NA	56.5	NA	NA	NA	53.0	NA	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	NA	29.0	NA	NA	NA	30.5	NA	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	NA	22.0	NA	NA	NA	21.0	NA	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	NA	17.0	NA	NA	NA	17.0	NA	NA	NA
Metals												
Arsenic	mg/kg	7.66 J	NA	NA	16.3	17.6 J	3.82	2.24 J	17.1 J	20.2	7.25	NA
Barium	mg/kg	241	NA	NA	258	241	106	89.0	267	539	198	NA
Cadmium	mg/kg	< 2.62 U	NA	NA	1.99 J	< 4.58 U	< 0.916 U	< 0.764 U	< 4.49 U	0.790 J	0.211 J	NA
Chromium	mg/kg	33.0 J	NA	NA	36.5 J	33.5 J	16.1 J	12.5 J	38.9 J	84.4 J	33.7 J	NA
Lead	mg/kg	41.1	NA	NA	68.5	55.7	19.0	15.6	71.5	103	33.9	NA
Mercury	mg/kg	0.130 J	NA	NA	0.152 J	0.196 J	0.0395 J	0.0531 J	0.184 J	0.146 J	0.788	NA
Nickel	mg/kg	31.1	NA	NA	36.0	33.6	11.4	8.17	34.8	74.0	28.5	NA
Selenium	mg/kg	< 10.5 U	NA	NA	< 13.0 U	< 18.3 U	< 3.66 U	< 3.06 U	< 18.0 U	< 15.1 U	< 5.34 U	NA
Silver	mg/kg	< 2.62 U	NA	NA	< 3.25 U	< 4.58 U	< 0.916 U	< 0.764 U	< 4.49 U	< 3.76 U	< 1.34 U	NA
Vanadium	mg/kg	52.7	NA	NA	58.7	54.7	27.1	21.3	64.0	135	52.4	NA
Other												
Black Carbon	%	NA	NA	NA	0.32 J	0.36 J	NA	NA	0.3 J	NA	NA	NA
Percent Moisture	%	80.9	77.8	83.4	84.9	89.3	47.5	36.5	89.2	87.1	63.3	42.0
Total Organic Carbon	%	NA	NA	NA	8.11	13.4	NA	NA	12.5	NA	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	15.2	NA	NA	5.33	6.64	3.05	1.14	6.62	4.75	4.87	NA
2-Methylnaphthalene	ug/kg	27.2	NA	NA	13.1	16.6	6.33	2.40	18.4	12.1	12.4	NA
Acenaphthene	ug/kg	3.06	NA	NA	1.54	8.73	1.10	0.465	8.16	4.01	3.78	NA
Acenaphthylene	ug/kg	5.52	NA	NA	5.21	13.6	2.15	0.373	11.8	2.35	2.14	NA
Anthracene	ug/kg	11.4	NA	NA	12.4	32.9	5.13	0.634	26.1	5.67	5.29	NA
Benzo(a)Anthracene	ug/kg	11.0	NA	NA	12.2	20.6	4.22	1.04	24.9	6.98	7.60	NA
Benzo(a)Pyrene	ug/kg	15.5	NA	NA	16.1	28.0	4.76	< 0.1 U	30.9	7.63	6.35	NA
Benzo(b)Fluoranthene	ug/kg	49.4	NA	NA	57.7	97	17.2	4.23	114	32.6	31.0	NA
Benzo(g,h,i)Perylene	ug/kg	35.3	NA	NA	59.9	69.3 J	10.7	< 0.1 U	145 J	18.0	16.8	NA
Benzo(j)+(k)Fluoranthene	ug/kg	20.3	NA	NA	18.1	24.3	4.91	0.803	33.2	6.78	8.34	NA
Chrysene/Triphenylene	ug/kg	40.7	NA	NA	32.1	42.3	8.65	2.89	42.2	24.6	25.0	NA
Dibenz(a,h)Anthracene	ug/kg	5.71	NA	NA	8.41	8.17 J	2.67	< 0.1 U	14.5 J	4.81	4.34	NA
Fluoranthene	ug/kg	54.4	NA	NA	40.7	90.7	16.7	4.64	79.1	23.6	24.7	NA
Fluorene	ug/kg	22.1	NA	NA	15.9	28.0	10.9	3.32	22.3	12.0	11.2	NA
Indeno[1,2,3-cd]pyrene	ug/kg	22.9	NA	NA	39.5	30.3 J	10.9	< 0.1 U	60.3 J	11.3	10.9	NA
Naphthalene	ug/kg	11.7	NA	NA	10.5	15.1	6.21	2.99	18.5	10.0	8.18	NA
Phenanthrene	ug/kg	85.6	NA	NA	47.7	109	44.3	12.9	83.2	39.9	36.2	NA
Pyrene	ug/kg	39.1	NA	NA	35.6	49.8	12.4	3.19	72.2	20.7	21.2	NA
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	32.0	NA	NA	37.9	44.8	7.94	< 0.2 U	66.3	23.5	22.7	NA
C1-Chrysenes	ug/kg	87.3	NA	NA	119	80.6	31.4	< 0.2 U	130	99.2	88.7	NA
C1-Fluoranthenes/Pyrenes	ug/kg	69.9	NA	NA	52.8	55.5	10.8	3.03	58.5	39.0	43.6	NA
C1-Fluorenes	ug/kg	35.9	NA	NA	11.0	16.2	5.22	1.98	15.1	8.00	8.90	NA
C1-Phenanthrenes/Anthracenes	ug/kg	101	NA	NA	46.6	61.8	16.0	6.59	56.3	31.4	34.0	NA
C2-Chrysenes	ug/kg	68.7	NA	NA	104	52.3 J	16.8	< 0.2 U	110 J	99.1	104	NA
C2-Fluorenes	ug/kg	105	NA	NA	63.9	54.7	22.3	5.86	69.0	37.1	39.5	NA
C2-Naphthalenes	ug/kg	74.9	NA	NA	25.5	38.9	11.7	7.15	36.2	27.4	32.0	NA
C2-Phenanthrenes/Anthracenes	ug/kg	190	NA	NA	93.8	79.7	18.4	< 0.3 U	81.3	59.0	70.6	NA
C3-Chrysenes	ug/kg	60.2	NA	NA	90.9	34.7 J	17.1	< 0.2 U	92.5 J	80.4	87.0	NA
C3-Fluorenes	ug/kg	124	NA	NA	53.9	70.6	17.8	6.60	71.8	30.7	34.4	NA
C3-Naphthalenes	ug/kg	111	NA	NA	31.3	46.0	11.1	7.47	37.0	35.6	49.3	NA
C3-Phenanthrenes/Anthracenes	ug/kg	184	NA	NA	90.4	85.8	15.4	< 0.3 U	75.2	85.9	96.1	NA
C4-Chrysenes	ug/kg	53.4	NA	NA	72.8	< 0.2 UJ	13.4	< 0.2 U	109 J	49.8	46.7	NA

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	116	NA	NA	17.6	37.3	10.9	< 0.7 U	26.0	28.3	30.8	NA
C4-Phenanthrenes/Anthracenes	ug/kg	175	NA	NA	96.1	61.4	14.4	< 0.3 U	80.7	71.9	87.6	NA
Perylene	ug/kg	212	NA	NA	297	567	396	625	790	375	314	NA
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	13.9	16.5 J	NA	NA	16.7	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	4.17	7.33	NA	NA	7.44	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	4.00	3.31	NA	NA	4.00	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	5.13	10.3	NA	NA	8.24	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	7.96	10.5	NA	NA	11.1	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	5.00	8.90	NA	NA	5.24 J	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	11.6	10.2	NA	NA	11.5	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	19.8	13.2	NA	NA	20.1	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	6.57	6.26	NA	NA	8.72	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	7.01	5.94	NA	NA	5.84	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	14.5	16.9	NA	NA	16.4	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	11.9	12.1	NA	NA	13.3	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	8.76	14.8	NA	NA	14.1	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	27.7	27.9	NA	NA	< 0.3 UJ	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	10.6	12.1	NA	NA	16.4	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	< 0.3 U	< 0.1 UJ	NA	NA	2.11 J	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	< 0.2 U	NA	NA	< 0.5 U	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	< 0.8 U	< 0.3 U	NA	NA	< 0.8 U	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	98.1	NA	NA	24.2	20.2	4.63	1.86	25.2	20.1	22.2	NA
C1-Naphthalenes	ug/kg	25.3	NA	NA	11.1	14.7	5.62	2.12	15.0	10.1	10.4	NA
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	107	60.9	NA	NA	73.4	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	< 0.2 U	NA	NA	< 0.5 U	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	< 0.8 U	< 0.3 U	NA	NA	< 0.8 U	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	200	NA	NA	62.0	41.7	8.97	2.09	49.5	48.4	52.7	NA
C2-Fluoranthenes/Pyrenes	ug/kg	134	NA	NA	140	122	22.8	< 0.5 U	107	93.7	90.5	NA
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	213	92.1	NA	NA	152	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	< 1.6 U	< 0.6 U	NA	NA	< 1.7 U	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	< 0.2 U	NA	NA	< 0.5 U	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	< 0.8 U	< 0.3 U	NA	NA	< 0.8 U	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	243	NA	NA	129	49.9	14.1	2.20	63.1	83.5	95.1	NA
C3-Fluoranthenes/Pyrenes	ug/kg	93.7	NA	NA	79.6	59.8	11.7	< 0.5 U	56.3	82.7	75.7	NA
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	209	91.6	NA	NA	147	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	< 0.5 U	< 0.2 U	NA	NA	< 0.5 U	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	< 0.8 U	< 0.3 U	NA	NA	< 0.8 U	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	202	NA	NA	112	62.2	15.5	1.97	71.6	96.1	114	NA
C4-Fluoranthenes/Pyrenes	ug/kg	95.8	NA	NA	106	54.2 J	24.5	< 0.5 U	105 J	92.4	82.6	NA
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	110	35.4 J	NA	NA	72.2 J	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	4.32	7.18	NA	NA	11.4	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	57.2	87.5	NA	NA	82.3	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	7.35	15.8	NA	NA	14.2	NA	NA	NA
Dibenzothiophene	ug/kg	39.5	NA	NA	12.3	15.6	4.40	1.51	17.9	9.39	9.98	NA
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	12.8	21.0	NA	NA	19.3	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	26.2	21.9	NA	NA	26.5	NA	NA	NA
Retene	ug/kg	NA	NA	NA	8.65	13.1	NA	NA	15.3	NA	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	4821	6627	NA	NA	6573	NA	NA	NA
i-C15	mg/kg	NA	NA	NA	0.043 J	0.041	NA	NA	0.053	NA	NA	NA
i-C16	mg/kg	NA	NA	NA	0.209	0.138	NA	NA	0.179	NA	NA	NA
i-C18	mg/kg	NA	NA	NA	0.038	0.087	NA	NA	0.055	NA	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	0.009 J	0.015 J	NA	NA	0.104 J	NA	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	0.024 J	0.030	NA	NA	0.030 J	NA	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	0.017 J	0.066	NA	NA	0.027 J	NA	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	0.037 J	0.060	NA	NA	0.051 J	NA	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	0.060	0.128 J	NA	NA	0.055 J	NA	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	0.523	0.860	NA	NA	0.902	NA	NA	NA

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	0.076	0.206 J	NA	NA	0.097 J	NA	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	0.219	0.442	NA	NA	0.384	NA	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	1.37	1.985	NA	NA	1.65	NA	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	1.45	1.811	NA	NA	1.80	NA	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	0.241	0.466	NA	NA	0.410	NA	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	5.65	5.189	NA	NA	6.17	NA	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	0.430	0.643	NA	NA	0.594	NA	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	8.69	6.179	NA	NA	9.16	NA	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	0.958	1.226	NA	NA	1.19	NA	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	5.79	6.543	NA	NA	6.57	NA	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	0.608	0.631	NA	NA	0.624	NA	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	6.90	7.425	NA	NA	7.37	NA	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	0.596	0.725	NA	NA	0.719	NA	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	7.48	8.765	NA	NA	9.52	NA	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	0.252	0.417	NA	NA	0.446	NA	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	4.70	11.120	NA	NA	9.18	NA	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	0.591	1.141 J	NA	NA	0.316 J	NA	NA	NA
n-C33	mg/kg	NA	NA	NA	3.62	8.700	NA	NA	7.99	NA	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	0.868	1.184 J	NA	NA	0.480 J	NA	NA	NA
n-C35	mg/kg	NA	NA	NA	2.89	9.146 J	NA	NA	4.07 J	NA	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	0.293	0.806 J	NA	NA	0.379 J	NA	NA	NA
n-C37	mg/kg	NA	NA	NA	2.16	2.642	NA	NA	3.00	NA	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	0.323	0.655	NA	NA	0.547	NA	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	1.24	1.641	NA	NA	1.49	NA	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	< 0.054 U	< 0.019 U	NA	NA	< 0.055 U	NA	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	< 0.036 U	< 0.012 UJ	NA	NA	< 0.036 U	NA	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	0.492	0.849	NA	NA	0.804	NA	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	0.226	0.570	NA	NA	0.492	NA	NA	NA
Total Alkanes	mg/kg	NA	NA	NA	59.1	82.5	NA	NA	76.9	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	1578	1774	NA	NA	2173	NA	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	834	940	NA	NA	1000	NA	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	744	834	NA	NA	1173	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,1,1-Trichloroethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,1,2,2-Tetrachloroethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,1,2-Trichloroethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 77 U	< 55 U	< 90 U	< 93 U	< 140 U	< 18 U	< 15 U	< 100 U	< 110 U	< 35 U	< 18 U
1,1-Dichloroethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,1-Dichloroethene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,1-Dichloropropene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2,3-Trichlorobenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2,3-Trichloropropane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2,4-Trichlorobenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2,4-Trimethylbenzene	ug/kg	18 J	7 J	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2-Dibromoethane (EDB)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2-Dichlorobenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2-Dichloroethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,2-Dichloropropane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,3,5-Trimethylbenzene	ug/kg	20 J	7 J	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,3-Dichlorobenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,3-Dichloropropane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
1,4-Dichlorobenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
2,2-Dichloropropane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
2-Butanone (MEK)	ug/kg	< 77 U	26 J	60 J	< 93 U	< 140 U	< 18 U	< 15 U	160	< 110 U	< 35 U	< 18 U
2-Chlorotoluene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
2-Phenylbutane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
4-Chlorotoluene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 77 U	< 55 U	< 90 U	< 93 U	< 140 U	< 18 U	< 15 U	< 100 U	< 110 U	< 35 U	< 18 U
Acetone	ug/kg	190	150	340	230	320	25 J	19 J	920	230	52 J	36 J
Allyl chloride	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Benzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Bromobenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Bromochloromethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Bromodichloromethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Bromoform (Tribromomethane)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Chemical	**Units**											
Bromomethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Carbon Tetrachloride	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Chlorobenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Chloroethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Chloroform	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Chloromethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
cis-1,2-Dichloroethene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
cis-1,3-Dichloropropene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Dibromochloromethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Dibromomethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Dichlorofluoromethane	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Diethyl ether (Ethyl ether)	ug/kg	< 38 UJ	< 27 UJ	< 45 UJ	< 47 UJ	< 68 UJ	< 9 UJ	< 7 UJ	< 50 UJ	< 56 UJ	< 18 UJ	< 9 UJ
Ethylbenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Hexachloro-1,3-Butadiene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Isopropylbenzene (Cumene)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Methylene Chloride (Dichloromethane)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Methyl-tert-butyl ether	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
n-Butylbenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
n-Propylbenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
p-Isopropyltoluene (Cymene)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Styrene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Tert-Butylbenzene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Tetrachloroethene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Tetrahydrofuran	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Toluene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
trans-1,2-Dichloroethene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
trans-1,3-Dichloropropene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Trichloroethene	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	14 J	< 9 U	< 7 U	< 50 U	20 J	4 J	2 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Vinyl Chloride	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U
Xylene (Total)	ug/kg	< 38 U	< 27 U	< 45 U	< 47 U	< 68 U	< 9 U	< 7 U	< 50 U	< 56 U	< 18 U	< 9 U

Location		SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
Depths (ft)		2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
Sample ID		SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA	NA	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA	NA	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA	NA	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	100	NA	NA	NA	NA	NA	100	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	100	NA	NA	NA	NA	NA	100	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.7	NA	NA	NA	NA	NA	99.9	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	99.4	NA	NA	NA	NA	NA	99.7	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	98.1	NA	NA	NA	NA	NA	99.5	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	95.7	NA	NA	NA	NA	NA	99.0	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	92.3	NA	NA	NA	NA	NA	98.3	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	87.8	NA	NA	NA	NA	NA	97.8	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	84.0	NA	NA	NA	NA	NA	94.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	76.0	NA	NA	NA	NA	NA	88.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	52.0	NA	NA	NA	NA	NA	71.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	23.0	NA	NA	NA	NA	NA	50.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	17.0	NA	NA	NA	NA	NA	39.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	12.0	NA	NA	NA	NA	NA	31.0	NA	NA
Metals												
Arsenic	mg/kg	NA	NA	6.17	7.60	3.27	NA	NA	NA	5.20 J	4.05	2.65 J
Barium	mg/kg	NA	NA	127	148	115	NA	NA	NA	84.2	97.6	82.0
Cadmium	mg/kg	NA	NA	< 1.50 U	< 1.76 U	< 0.738 U	NA	NA	NA	< 1.45 U	0.174 J	< 0.701 U
Chromium	mg/kg	NA	NA	19.6	22.8	18.9	NA	NA	NA	11.4	13.8	15.8
Lead	mg/kg	NA	NA	20.1	27.2	17.5	NA	NA	NA	19.1	23.3	14.9
Mercury	mg/kg	NA	NA	0.0535 J	0.0481 J	0.0344 J	NA	NA	NA	< 0.280 U	0.0431 J	0.0300 J
Nickel	mg/kg	NA	NA	14.6	17.8	12.0	NA	NA	NA	10.6	11.1	9.59
Selenium	mg/kg	NA	NA	< 6.01 U	< 7.04 U	< 2.95 U	NA	NA	NA	< 5.81 U	< 3.51 U	< 2.80 U
Silver	mg/kg	NA	NA	< 1.50 U	< 1.76 U	< 0.738 U	NA	NA	NA	< 1.45 U	< 0.878 U	< 0.701 U
Vanadium	mg/kg	NA	NA	32.0	36.7	32.3	NA	NA	NA	18.2	23.9	26.6
Other												
Black Carbon	%	NA	NA	< 0.17 U	NA	NA	NA	NA	NA	0.21 J	NA	NA
Percent Moisture	%	29.9	21.4	67.7	71.6	33.6	24.0	26.2	23.7	65.9	43.6	29.4
Total Organic Carbon	%	NA	NA	5.35	NA	NA	NA	NA	NA	8.65 J	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	NA	NA	1.68	3.97	1.60	NA	NA	NA	5.93	2.34	0.838
2-Methylnaphthalene	ug/kg	NA	NA	3.89	9.21	3.62	NA	NA	NA	12.2	5.29	1.80
Acenaphthene	ug/kg	NA	NA	1.57	1.85	0.655	NA	NA	NA	7.58	2.51	0.63
Acenaphthylene	ug/kg	NA	NA	3.48	5.02	1.07	NA	NA	NA	65.22	9.19	0.79
Anthracene	ug/kg	NA	NA	6.65 J	12.39 J	2.03	NA	NA	NA	115.96 J	12.27 J	1.23 J
Benzo(a)Anthracene	ug/kg	NA	NA	12.90	19.71	3.35	NA	NA	NA	171.95	44.98	2.65
Benzo(a)Pyrene	ug/kg	NA	NA	7.12	13.44	3.12	NA	NA	NA	123.60	16.71	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	NA	NA	25.15	66.37	10.1	NA	NA	NA	385.97	62.78	4.36
Benzo(g,h,i)Perylene	ug/kg	NA	NA	16.86	36.40	4.44	NA	NA	NA	87.72	14.04	< 0.1 U
Benzo(j)+(k)Fluoranthene	ug/kg	NA	NA	6.07	18.39	2.13	NA	NA	NA	142.21	12.35	1.28
Chrysene/Triphenylene	ug/kg	NA	NA	14.82	28.05	7.89	NA	NA	NA	191.05	41.44	3.66
Dibenz(a,h)Anthracene	ug/kg	NA	NA	28.39	48.84	13.4	NA	NA	NA	29.02	6.81	< 0.1 U
Fluoranthene	ug/kg	NA	NA	20.72	42.44	12.1	NA	NA	NA	252.66	50.82	3.84
Fluorene	ug/kg	NA	NA	5.69	16.93	4.95	NA	NA	NA	20.86	9.22	3.06
Indeno[1,2,3-cd]pyrene	ug/kg	NA	NA	10.33	13.51	4.29	NA	NA	NA	93.73	14.65	< 0.1 U
Naphthalene	ug/kg	NA	NA	4.11	8.16	3.97	NA	NA	NA	11.12	5.94	2.43
Phenanthrene	ug/kg	NA	NA	20.68	47.19	16.5	NA	NA	NA	103.97	28.98	7.59
Pyrene	ug/kg	NA	NA	21.69	36.81	7.86	NA	NA	NA	199.19	53.46	3.73
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	NA	NA	9.31	27.90	5.55	NA	NA	NA	151.56	24.27	< 0.2 U
C1-Chrysenes	ug/kg	NA	NA	42.17	101.16	24.7	NA	NA	NA	164.46	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	NA	NA	15.54	39.13	9.67	NA	NA	NA	145.56	37.90	2.68
C1-Fluorenes	ug/kg	NA	NA	5.05	10.49	3.47	NA	NA	NA	10.69	4.75	1.40
C1-Phenanthrenes/Anthracenes	ug/kg	NA	NA	20.06	46.64	11.9	NA	NA	NA	80.24	26.44	5.95
C2-Chrysenes	ug/kg	NA	NA	24.93	77.43	18.4	NA	NA	NA	88.01	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	NA	NA	14.57	27.92	15.0	NA	NA	NA	48.20	11.25	2.04
C2-Naphthalenes	ug/kg	NA	NA	9.11	20.76	7.54	NA	NA	NA	29.42	10.79	3.51
C2-Phenanthrenes/Anthracenes	ug/kg	NA	NA	24.56	70.25	20.8	NA	NA	NA	84.71	28.37	6.40
C3-Chrysenes	ug/kg	NA	NA	15.08	53.31	14.9	NA	NA	NA	34.67	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	NA	NA	14.81	40.28	10.8	NA	NA	NA	26.49	14.34	< 0.4 U
C3-Naphthalenes	ug/kg	NA	NA	16.36	25.64	18.9	NA	NA	NA	< 0.7 U	15.63	7.14
C3-Phenanthrenes/Anthracenes	ug/kg	NA	NA	31.30	92.92	19.2	NA	NA	NA	83.36	18.66	2.01
C4-Chrysenes	ug/kg	NA	NA	12.88	28.82	10.4	NA	NA	NA	24.21	< 0.2 U	< 0.2 U

	Location	SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
	Depths (ft)	2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
	Sample ID	SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	NA	NA	10.79	22.78	10.8	NA	NA	NA	< 0.7 U	20.46	< 0.7 U
C4-Phenanthrenes/Anthracenes	ug/kg	NA	NA	33.85	72.06	15.1	NA	NA	NA	57.33	18.24	2.77
Perylene	ug/kg	NA	NA	291.88	373.54	164	NA	NA	NA	439.59	549.39	344.83
Phenanthrene, 2-methyl-	ug/kg	NA	NA	5.31	NA	NA	NA	NA	NA	22.4	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	2.24	NA	NA	NA	NA	NA	6.21	NA	NA
18a-Oleanane	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	1.23	NA	NA	NA	NA	NA	6.26	NA	NA
1-Methylfluorene	ug/kg	NA	NA	2.28	NA	NA	NA	NA	NA	6.64	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	3.75	NA	NA	NA	NA	NA	15.4	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	2.23	NA	NA	NA	NA	NA	3.87	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	4.10	NA	NA	NA	NA	NA	12.4	NA	NA
2-Methylanthracene	ug/kg	NA	NA	7.74	NA	NA	NA	NA	NA	25.8	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	2.78	NA	NA	NA	NA	NA	36.1	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	1.61	NA	NA	NA	NA	NA	6.04	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	6.27	NA	NA	NA	NA	NA	17.9	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	4.45	NA	NA	NA	NA	NA	14.7	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	3.86	NA	NA	NA	NA	NA	26.3	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	< 0.1 U	NA	NA	NA	NA	NA	47.22	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	4.92	NA	NA	NA	NA	NA	35.9	NA	NA
Benzothiophene	ug/kg	NA	NA	< 0.1 U	NA	NA	NA	NA	NA	1.23	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	NA	NA	NA	2.00	NA	NA
C1-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	NA	NA	NA	< 0.3 U	NA	NA
C1-Dibenzothiophenes	ug/kg	NA	NA	5.75	16.81	5.71	NA	NA	NA	19.64	5.18	0.78
C1-Naphthalenes	ug/kg	NA	NA	3.45	8.16	3.13	NA	NA	NA	11.19	4.72	1.63
C1-Naphthobenzothiophenes	ug/kg	NA	NA	24.33	NA	NA	NA	NA	NA	57.95	NA	NA
C20-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C21-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C29-Hopane	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	NA	NA	NA	21.87	NA	NA
C2-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	NA	NA	NA	< 0.3 U	NA	NA
C2-Dibenzothiophenes	ug/kg	NA	NA	11.01	39.12	12.3	NA	NA	NA	34.52	7.96	0.78
C2-Fluoranthenes/Pyrenes	ug/kg	NA	NA	28.37	97.97	18.6	NA	NA	NA	119.03	30.77	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	NA	38.50	NA	NA	NA	NA	NA	63.11	NA	NA
C30-Hopane	ug/kg	NA	NA	< 0.6 U	NA	NA	NA	NA	NA	< 0.6 U	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	NA	NA	NA	17.40	NA	NA
C3-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	NA	NA	NA	< 0.3 U	NA	NA
C3-Dibenzothiophenes	ug/kg	NA	NA	14.42	66.25	21.5	NA	NA	NA	43.16	11.72	1.21
C3-Fluoranthenes/Pyrenes	ug/kg	NA	NA	15.66	45.60	16.8	NA	NA	NA	79.04	18.39	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	NA	37.05	NA	NA	NA	NA	NA	45.98	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	NA	NA	NA	7.57	NA	NA
C4-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	NA	NA	NA	< 0.3 U	NA	NA
C4-Dibenzothiophenes	ug/kg	NA	NA	19.42	76.44	15.1	NA	NA	NA	38.17	10.12	1.46
C4-Fluoranthenes/Pyrenes	ug/kg	NA	NA	17.37	57.67	19.6	NA	NA	NA	57.46	18.38	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	NA	21.24	NA	NA	NA	NA	NA	30.08	NA	NA
Carbazole	ug/kg	NA	NA	2.48	NA	NA	NA	NA	NA	14.18	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	23.56	NA	NA	NA	NA	NA	46.61	NA	NA
Dibenzofuran	ug/kg	NA	NA	3.53	NA	NA	NA	NA	NA	14.77	NA	NA
Dibenzothiophene	ug/kg	NA	NA	3.57	8.01	2.87	NA	NA	NA	13.09	3.60	0.97
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	4.28	NA	NA	NA	NA	NA	15.2	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	11.61	NA	NA	NA	NA	NA	64.46	NA	NA
Retene	ug/kg	NA	NA	60.9	NA	NA	NA	NA	NA	35.4	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	1384	NA	NA	NA	NA	NA	4220	NA	NA
i-C15	mg/kg	NA	NA	0.008 J	NA	NA	NA	NA	NA	0.030 J	NA	NA
i-C16	mg/kg	NA	NA	0.042	NA	NA	NA	NA	NA	0.241	NA	NA
i-C18	mg/kg	NA	NA	0.015	NA	NA	NA	NA	NA	0.079	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.004 J	NA	NA	NA	NA	NA	0.005 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.010 J	NA	NA	NA	NA	NA	0.017 J	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.010 J	NA	NA	NA	NA	NA	0.015 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.015 J	NA	NA	NA	NA	NA	0.036 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.026	NA	NA	NA	NA	NA	0.051	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.210	NA	NA	NA	NA	NA	0.514	NA	NA

	Location	SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
	Depths (ft)	2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
	Sample ID	SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.020	NA	NA	NA	NA	NA	0.054	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.059	NA	NA	NA	NA	NA	0.894	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	0.674	NA	NA	NA	NA	NA	1.30	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.430	NA	NA	NA	NA	NA	0.881	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.092	NA	NA	NA	NA	NA	0.246	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	1.65	NA	NA	NA	NA	NA	2.91	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.149	NA	NA	NA	NA	NA	0.363	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	1.96	NA	NA	NA	NA	NA	3.38	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.239	NA	NA	NA	NA	NA	0.336	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	1.67	NA	NA	NA	NA	NA	2.77	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.190	NA	NA	NA	NA	NA	0.361	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	3.15	NA	NA	NA	NA	NA	4.17	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.371	NA	NA	NA	NA	NA	0.852	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	3.66	NA	NA	NA	NA	NA	8.23	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.425	NA	NA	NA	NA	NA	1.13	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	4.19	NA	NA	NA	NA	NA	14.7	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.247	NA	NA	NA	NA	NA	1.59	NA	NA
n-C33	mg/kg	NA	NA	4.59	NA	NA	NA	NA	NA	19.9	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	0.588	NA	NA	NA	NA	NA	1.33	NA	NA
n-C35	mg/kg	NA	NA	3.44	NA	NA	NA	NA	NA	9.65	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.231	NA	NA	NA	NA	NA	0.665	NA	NA
n-C37	mg/kg	NA	NA	1.07	NA	NA	NA	NA	NA	2.14	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.121	NA	NA	NA	NA	NA	0.472	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.330	NA	NA	NA	NA	NA	0.721	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	< 0.019 U	NA	NA	NA	NA	NA	< 0.038 U	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	< 0.012 U	NA	NA	NA	NA	NA	< 0.025 U	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.175	NA	NA	NA	NA	NA	0.840	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.086	NA	NA	NA	NA	NA	0.398	NA	NA
Total Alkanes	mg/kg	NA	NA	30.2	NA	NA	NA	NA	NA	81.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	393	NA	NA	NA	NA	NA	1296	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	309	NA	NA	NA	NA	NA	717	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	83	NA	NA	NA	NA	NA	579	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,1,1-Trichloroethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,1,2,2-Tetrachloroethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,1,2-Trichloroethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 13 U	< 10 U	< 36 U	< 37 U	< 15 U	< 13 U	< 12 U	< 12 U	< 37 U	< 20 U	< 15 U
1,1-Dichloroethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,1-Dichloroethene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,1-Dichloropropene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2,3-Trichlorobenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2,3-Trichloropropane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2,4-Trichlorobenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2,4-Trimethylbenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2-Dibromoethane (EDB)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2-Dichlorobenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2-Dichloroethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,2-Dichloropropane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,3,5-Trimethylbenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,3-Dichlorobenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,3-Dichloropropane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
1,4-Dichlorobenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
2,2-Dichloropropane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
2-Butanone (MEK)	ug/kg	< 13 U	< 10 U	< 36 U	< 37 U	< 15 U	< 13 U	< 12 U	< 12 U	< 37 U	13 J	7 J
2-Chlorotoluene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
2-Phenylbutane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
4-Chlorotoluene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 13 U	< 10 U	< 36 U	< 37 U	< 15 U	< 13 U	< 12 U	< 12 U	< 37 U	< 20 U	< 15 U
Acetone	ug/kg	17 J	10 J	69 J	44 J	14 J	9 J	< 24 U	< 25 U	65 J	63	36
Allyl chloride	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Benzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Bromobenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Bromochloromethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Bromodichloromethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Bromoform (Tribromomethane)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U

	Location	SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
	Depths (ft)	2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
	Sample ID	SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Chemical	**Units**											
Bromomethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Carbon Tetrachloride	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Chlorobenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Chloroethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Chloroform	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Chloromethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
cis-1,2-Dichloroethene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
cis-1,3-Dichloropropene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Dibromochloromethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Dibromomethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Dichlorofluoromethane	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Diethyl ether (Ethyl ether)	ug/kg	< 7 UJ	< 5 UJ	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Ethylbenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Hexachloro-1,3-Butadiene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Isopropylbenzene (Cumene)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Methylene Chloride (Dichloromethane)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Methyl-tert-butyl ether	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
n-Butylbenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
n-Propylbenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
p-Isopropyltoluene (Cymene)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Styrene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Tert-Butylbenzene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Tetrachloroethene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Tetrahydrofuran	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Toluene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
trans-1,2-Dichloroethene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
trans-1,3-Dichloropropene	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Trichloroethene	ug/kg	2 J	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 UB	< 10 UB	< 8 UB
Trichlorofluoromethane (CFC-11)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Vinyl Chloride	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U
Xylene (Total)	ug/kg	< 7 U	< 5 U	< 18 U	< 18 U	< 7 U	< 6 U	< 6 U	< 6 U	< 19 U	< 10 U	< 8 U

	Location	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	NA	NA	NA	100	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	NA	NA	100	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	100	NA	NA	NA	NA	100	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	100	NA	NA	NA	NA	100	NA	NA	100	NA	NA
Sieve, 3350 micron, % passing	% passing	100	NA	NA	NA	NA	100	NA	NA	99.7	NA	NA
Sieve, 2360 micron, % passing	% passing	100	NA	NA	NA	NA	99.9	NA	NA	99.4	NA	NA
Sieve, 1180 micron, % passing	% passing	99.9	NA	NA	NA	NA	99.5	NA	NA	96.8	NA	NA
Sieve, 600 micron, % passing	% passing	99.4	NA	NA	NA	NA	99.0	NA	NA	82.0	NA	NA
Sieve, 300 micron, % passing	% passing	99.0	NA	NA	NA	NA	98.4	NA	NA	72.0	NA	NA
Sieve, 150 micron, % passing	% passing	98.2	NA	NA	NA	NA	97.5	NA	NA	67.3	NA	NA
Sieve, 75 micron, % passing	% passing	97.9	NA	NA	NA	NA	96.4	NA	NA	64.4	NA	NA
Sieve, 64 micron, % passing	% passing	94.0	NA	NA	NA	NA	90.0	NA	NA	64.0	NA	NA
Sieve, 50 micron, % passing	% passing	84.0	NA	NA	NA	NA	74.0	NA	NA	63.0	NA	NA
Sieve, 20 micron, % passing	% passing	65.0	NA	NA	NA	NA	54.0	NA	NA	54.0	NA	NA
Sieve, 5 micron, % passing	% passing	46.0	NA	NA	NA	NA	33.0	NA	NA	38.0	NA	NA
Sieve, 2 micron, % passing	% passing	36.0	NA	NA	NA	NA	25.0	NA	NA	21.0	NA	NA
Sieve, 1 micron, % passing	% passing	26.0	NA	NA	NA	NA	20.0	NA	NA	18.0	NA	NA
Metals												
Arsenic	mg/kg	20.8 J	4.15 J	2.35 J	NA	NA	6.87	1.92 J	1.92 J	5.21	12.2	5.99
Barium	mg/kg	511	143	109	NA	NA	125	89.5	71.0	132 J	305 J	179 J
Cadmium	mg/kg	< 5.27 U	< 1.32 U	< 0.743 U	NA	NA	< 1.60 U	< 0.631 U	< 0.620 U	< 0.988 U	0.275 J	0.170 J
Chromium	mg/kg	81.8	27.4	17.2	NA	NA	18.4	15.5	11.7	25.0 J	50.2 J	20.9 J
Lead	mg/kg	97.7	24.7	13.2	NA	NA	25.1	12.7	10.4	21.5 J	42.6 J	24.1 J
Mercury	mg/kg	0.155 J	0.0613 J	0.0243 J	NA	NA	0.0353 J	0.0209 J	0.0154 J	0.0278 J	0.0725 J	0.0648 J
Nickel	mg/kg	61.8	17.6	10.7	NA	NA	15.1	8.71	6.42	18.9 J	43.5 J	16.8 J
Selenium	mg/kg	< 21.1 U	< 5.26 U	< 2.97 U	NA	NA	< 6.39 U	< 2.53 U	< 2.48 U	< 3.95 U	< 6.62 U	< 3.13 U
Silver	mg/kg	< 5.27 U	< 1.32 U	< 0.743 U	NA	NA	< 1.60 U	< 0.631 U	< 0.620 U	< 0.988 U	< 1.66 U	< 0.782 U
Vanadium	mg/kg	137	44.6	28.9	NA	NA	32.6	25.7	19.8	37.2 J	79.3 J	40.7 J
Other												
Black Carbon	%	< 0.2 U	NA	NA	NA	NA	0.29 J	NA	NA	0.250 J	NA	NA
Percent Moisture	%	90.6	63.1	33.4	29.5	66.0	69.6	21.6	19.4	50.4	70.1	37.9
Total Organic Carbon	%	3.26	NA	NA	NA	NA	8.99	NA	NA	3.23	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	4.48	1.49	0.982	NA	NA	4.10	0.445 J	0.261 J	7.61	8.43	2.67
2-Methylnaphthalene	ug/kg	8.86	3.47	2.00	NA	NA	10.3	0.922 J	0.502 J	19.4	20.2	5.72
Acenaphthene	ug/kg	2.67	0.685	0.580	NA	NA	3.47	0.31	0.11	1.67	4.67	1.79
Acenaphthylene	ug/kg	3.02	0.797	0.449	NA	NA	8.77	0.17	0.07	4.44	4.18	1.82
Anthracene	ug/kg	5.33 J	1.28 J	0.828 J	NA	NA	19.56 J	0.32 J	< 0.1 U	10.2 J	5.71 J	2.61 J
Benzo(a)Anthracene	ug/kg	11.6	2.41	2.15	NA	NA	24.24	0.61	< 0.2 U	35.6	12.2	5.39
Benzo(a)Pyrene	ug/kg	5.87	1.47	< 0.1 U	NA	NA	16.31	< 0.1 U	< 0.1 U	24.1	5.84	4.06
Benzo(b)Fluoranthene	ug/kg	24.0	6.16	3.40	NA	NA	64.98	1.25	< 0.2 U	49.8	29.0	19.1
Benzo(g,h,i)Perylene	ug/kg	12.2	3.40	1.64	NA	NA	36.67	< 0.1 U	< 0.1 U	27.0	13.8	6.25
Benzo(j)+(k)Fluoranthene	ug/kg	5.43	1.58	0.944	NA	NA	18.28	0.35	< 0.1 U	14.3	6.55	2.14
Chrysene/Triphenylene	ug/kg	22.2	6.69	3.95	NA	NA	34.37	1.22	< 0.1 U	35.2	22.5	15.7
Dibenz(a,h)Anthracene	ug/kg	3.53	1.00	0.793	NA	NA	5.48	< 0.1 U	< 0.1 U	5.99	4.04	2.58
Fluoranthene	ug/kg	18.6	5.05	4.88	NA	NA	57.06	2.05	0.70	42.4	22.9	12.1
Fluorene	ug/kg	8.67	3.71	4.27	NA	NA	18.65	1.97	1.52	11.2	16.9	8.13
Indeno[1,2,3-cd]pyrene	ug/kg	11.4	2.65	1.57	NA	NA	20.32	< 0.1 U	< 0.1 U	20.1	10.3	6.40
Naphthalene	ug/kg	5.21	3.20	2.74	NA	NA	9.16	1.39	< 0.91 UB	8.38	14.1	7.43
Phenanthrene	ug/kg	24.0	8.96	11.9	NA	NA	56.02	4.92	3.65	37.9	43.2	20.4
Pyrene	ug/kg	21.1	4.98	4.02	NA	NA	56.41	1.66	0.56	48.4	23.0	9.73
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	12.3	3.72	< 0.2 U	NA	NA	26.47	< 0.2 U	< 0.2 U	26.8	12.6	6.25
C1-Chrysenes	ug/kg	55.8	20.3	13.0	NA	NA	145.83	< 0.2 U	< 0.2 U	85.6	66.5	30.7
C1-Fluoranthenes/Pyrenes	ug/kg	21.8	6.05	2.81	NA	NA	41.70	1.11	0.30 J	36.8	23.0	8.94
C1-Fluorenes	ug/kg	8.59	2.05	1.94	NA	NA	8.63	1.02	0.80	12.0	14.3	4.53
C1-Phenanthrenes/Anthracenes	ug/kg	29.5	9.14	7.44	NA	NA	41.97	4.61	< 0.1 U	43.9	47.6	14.1
C2-Chrysenes	ug/kg	42.3	17.7	3.06	NA	NA	56.69	< 0.2 U	< 0.2 U	71.6	34.7	11.7
C2-Fluorenes	ug/kg	22.57	10.7	3.59	NA	NA	36.34	1.75	< 0.4 U	44.6	55.9	10.3
C2-Naphthalenes	ug/kg	21.3	7.73	4.41	NA	NA	20.73	1.73	0.95	61.9	84.2	17.9
C2-Phenanthrenes/Anthracenes	ug/kg	64.5	16.3	7.84	NA	NA	51.22	6.69	< 0.3 U	66.9	80.0	16.9
C3-Chrysenes	ug/kg	31.5	15.7	1.75	NA	NA	44.75	< 0.2 U	< 0.2 U	52.7	36.7	10.4
C3-Fluorenes	ug/kg	30.88	10.8	6.02	NA	NA	31.05	< 0.4 U	< 0.4 U	32.6	39.8	13.3
C3-Naphthalenes	ug/kg	< 0.7 U	13.3	5.68	NA	NA	27.21	5.68	1.49	87.2	158	37.1
C3-Phenanthrenes/Anthracenes	ug/kg	56.2	16.5	3.72	NA	NA	75.08	1.33	< 0.3 U	69.7	87.6	13.2
C4-Chrysenes	ug/kg	17.4	7.18	< 0.2 U	NA	NA	35.60	< 0.2 U	< 0.2 U	25.9	17.5	4.12

	Location	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	22.8	6.58	6.96	NA	NA	16.06	2.09	< 0.7 U	50.8	96.3	11.6
C4-Phenanthrenes/Anthracenes	ug/kg	46.1	14.0	3.40	NA	NA	71.93	1.97	< 0.3 U	71.0	81.7	12.5
Perylene	ug/kg	1905 EJ	153	567 EJ	NA	NA	818.38 EJ	303.95	65.69	197	518 EJ	567 EJ
Phenanthrene, 2-methyl-	ug/kg	9.72	NA	NA	NA	NA	12.9	NA	NA	16.6	NA	NA
1,1-Biphenyl	ug/kg	5.12	NA	NA	NA	NA	5.73	NA	NA	4.95	NA	NA
18a-Oleanane	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	4.12	NA	NA	NA	NA	2.37	NA	NA	4.16	NA	NA
1-Methylfluorene	ug/kg	4.75	NA	NA	NA	NA	5.00	NA	NA	7.14	NA	NA
1-Methylphenanthrene	ug/kg	6.51	NA	NA	NA	NA	8.76	NA	NA	8.19	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	4.41	NA	NA	NA	NA	2.91	NA	NA	13.0	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	8.38	NA	NA	NA	NA	8.23	NA	NA	11.8	NA	NA
2-Methylanthracene	ug/kg	7.67	NA	NA	NA	NA	13.6	NA	NA	9.03	NA	NA
2-Methylfluoranthene	ug/kg	3.39	NA	NA	NA	NA	7.58	NA	NA	6.17	NA	NA
3,6-Dimethylphenanthrene	ug/kg	18.7	NA	NA	NA	NA	3.24	NA	NA	4.54	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	9.09	NA	NA	NA	NA	12.0	NA	NA	15.1	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	10.4	NA	NA	NA	NA	8.43	NA	NA	14.7	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	6.66	NA	NA	NA	NA	9.15	NA	NA	9.94	NA	NA
Benzo(a)Fluoranthene	ug/kg	< 0.1 U	NA	NA	NA	NA	< 0.1 U	NA	NA	7.20	NA	NA
Benzo(b)fluorene	ug/kg	6.09	NA	NA	NA	NA	12.2	NA	NA	12.1	NA	NA
Benzothiophene	ug/kg	0.855	NA	NA	NA	NA	1.33	NA	NA	1.25	NA	NA
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA
C1-Decalins	ug/kg	49.0	NA	NA	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA
C1-Dibenzothiophenes	ug/kg	13.5	2.98	1.09	NA	NA	11.20	0.37	< 0.1 U	18.0	21.1	3.72
C1-Naphthalenes	ug/kg	8.24	3.07	1.84	NA	NA	8.90	0.84 J	0.47 J	16.8	17.7	5.18
C1-Naphthobenzothiophenes	ug/kg	56.2	NA	NA	NA	NA	89.05	NA	NA	84.7	NA	NA
C20-TAS	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C21-TAS	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C26(20S)-TAS	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C27(20R)-TAS	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C28(20R)-TAS	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C28(20S)-TAS	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C29-Hopane	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA
C2-Decalins	ug/kg	< 0.3 U	NA	NA	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA
C2-Dibenzothiophenes	ug/kg	28.4	6.94	1.55	NA	NA	23.54	0.64	< 0.2 U	34.7	44.7	6.27
C2-Fluoranthenes/Pyrenes	ug/kg	46.9	13.6	3.06	NA	NA	97.15	< 0.5 U	< 0.5 U	65.7	36.5	15.5
C2-Naphthobenzothiophenes	ug/kg	120	NA	NA	NA	NA	142.97	NA	NA	181	NA	NA
C30-Hopane	ug/kg	< 0.6 U	NA	NA	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA
C3-Decalins	ug/kg	< 0.3 U	NA	NA	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA
C3-Dibenzothiophenes	ug/kg	48.9	16.2	2.18	NA	NA	41.71	1.36	< 0.2 U	63.9	89.7	12.2
C3-Fluoranthenes/Pyrenes	ug/kg	37.3	13.2	2.25	NA	NA	55.80	< 0.5 U	< 0.5 U	51.8	31.7	10.6
C3-Naphthobenzothiophenes	ug/kg	118	NA	NA	NA	NA	142.89	NA	NA	156	NA	NA
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA
C4-Decalins	ug/kg	< 0.3 U	NA	NA	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA
C4-Dibenzothiophenes	ug/kg	49.0	16.9	1.69	NA	NA	43.70	1.24	< 0.2 U	56.1	71.2	9.30
C4-Fluoranthenes/Pyrenes	ug/kg	38.5	13.1	3.74	NA	NA	45.25	< 0.5 U	< 0.5 U	54.3	46.3	14.3
C4-Naphthobenzothiophenes	ug/kg	48.2	NA	NA	NA	NA	56.06	NA	NA	95.0	NA	NA
Carbazole	ug/kg	2.79	NA	NA	NA	NA	5.10	NA	NA	4.07	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	20.2	NA	NA	NA	NA	39.83	NA	NA	35.9	NA	NA
Dibenzofuran	ug/kg	4.64	NA	NA	NA	NA	9.96	NA	NA	7.14	NA	NA
Dibenzothiophene	ug/kg	7.05	1.70	1.18	NA	NA	8.76	0.49	0.17	8.94	9.30	3.13
Naphthalene, 2,6-dimethyl-	ug/kg	11.6	NA	NA	NA	NA	10.5	NA	NA	35.5	NA	NA
Naphthobenzothiophene	ug/kg	19.5	NA	NA	NA	NA	35.02	NA	NA	29.7	NA	NA
Retene	ug/kg	4.69	NA	NA	NA	NA	32.1	NA	NA	6.11	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	1753	NA	NA	NA	NA	2875	NA	NA	1462	NA	NA
i-C15	mg/kg	0.019	NA	NA	NA	NA	0.012 J	NA	NA	0.084	NA	NA
i-C16	mg/kg	0.053	NA	NA	NA	NA	0.096	NA	NA	0.131	NA	NA
i-C18	mg/kg	0.025	NA	NA	NA	NA	0.047	NA	NA	0.096	NA	NA
n-C10 (n-Decane)	mg/kg	0.004 J	NA	NA	NA	NA	< 0.021 U	NA	NA	0.015 J	NA	NA
n-C11 (n-Undecane)	mg/kg	0.012 J	NA	NA	NA	NA	0.025	NA	NA	0.025	NA	NA
n-C12 (n-Dodecane)	mg/kg	0.014 J	NA	NA	NA	NA	0.023	NA	NA	0.035	NA	NA
n-C13 (n-Tridecane)	mg/kg	0.016 J	NA	NA	NA	NA	0.034 J	NA	NA	0.050	NA	NA
n-C14 (n-Tetradecane)	mg/kg	0.024	NA	NA	NA	NA	0.043	NA	NA	0.088	NA	NA
n-C15 (Pentadecane)	mg/kg	0.195	NA	NA	NA	NA	0.475	NA	NA	0.362	NA	NA

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	0.013	NA	NA	NA	NA	0.034	NA	NA	0.046	NA	NA
n-C17 (Heptadecane)	mg/kg	0.111	NA	NA	NA	NA	0.136	NA	NA	0.147	NA	NA
n-C18 (Octadecane)	mg/kg	0.498	NA	NA	NA	NA	1.18	NA	NA	0.733	NA	NA
n-C19 (Nonadecane)	mg/kg	0.433	NA	NA	NA	NA	0.910	NA	NA	0.711	NA	NA
n-C20 (Eicosane)	mg/kg	0.176	NA	NA	NA	NA	0.209	NA	NA	0.126	NA	NA
n-C21 (Heneicosane)	mg/kg	1.85	NA	NA	NA	NA	3.46	NA	NA	1.24	NA	NA
n-C22 (Docosane)	mg/kg	0.218	NA	NA	NA	NA	0.383	NA	NA	0.163	NA	NA
n-C23 (Tricosane)	mg/kg	1.86	NA	NA	NA	NA	5.45	NA	NA	1.86	NA	NA
n-C24 (Tetracosane)	mg/kg	0.273	NA	NA	NA	NA	0.620	NA	NA	0.182	NA	NA
n-C25 (Pentacosane)	mg/kg	1.37	NA	NA	NA	NA	3.79	NA	NA	1.45	NA	NA
n-C26 (Hexacosane)	mg/kg	0.179	NA	NA	NA	NA	0.414	NA	NA	0.190	NA	NA
n-C27 (Heptacosane)	mg/kg	1.55	NA	NA	NA	NA	4.45	NA	NA	1.56	NA	NA
n-C28 (Octacosane)	mg/kg	0.448	NA	NA	NA	NA	0.697	NA	NA	0.219	NA	NA
n-C29 (Nonacosane)	mg/kg	3.77	NA	NA	NA	NA	7.36	NA	NA	1.91	NA	NA
n-C30 (n-Triacontane)	mg/kg	0.584	NA	NA	NA	NA	1.04	NA	NA	0.285	NA	NA
n-C31 (Hentriacontane)	mg/kg	5.45	NA	NA	NA	NA	6.66	NA	NA	1.62	NA	NA
n-C32 (Dotriacontane)	mg/kg	0.367	NA	NA	NA	NA	0.940	NA	NA	0.433	NA	NA
n-C33	mg/kg	9.40	NA	NA	NA	NA	5.38	NA	NA	1.50	NA	NA
n-C34 (Tetratriacontane)	mg/kg	0.523	NA	NA	NA	NA	0.914	NA	NA	0.193	NA	NA
n-C35	mg/kg	2.74	NA	NA	NA	NA	3.19	NA	NA	0.898	NA	NA
n-C36 (Hexatriacontane)	mg/kg	0.238	NA	NA	NA	NA	0.583	NA	NA	0.122	NA	NA
n-C37	mg/kg	1.17	NA	NA	NA	NA	2.05	NA	NA	0.523	NA	NA
n-C38 (Octatriacontane)	mg/kg	0.143	NA	NA	NA	NA	0.259	NA	NA	0.139	NA	NA
n-C39 (Nonatriacontane)	mg/kg	0.231	NA	NA	NA	NA	0.698	NA	NA	0.285	NA	NA
n-C40 (Tetracontane)	mg/kg	< 0.019 U	NA	NA	NA	NA	< 0.019 U	NA	NA	0.133	NA	NA
n-C9 (Nonane)	mg/kg	< 0.012 U	NA	NA	NA	NA	< 0.012 U	NA	NA	< 0.012 U	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.201	NA	NA	NA	NA	0.316	NA	NA	0.337	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.105	NA	NA	NA	NA	0.174	NA	NA	0.195	NA	NA
Total Alkanes	mg/kg	34.3	NA	NA	NA	NA	52.1	NA	NA	18.1	NA	NA
Total Petroleum Hydrocarbons	mg/kg	510	NA	NA	NA	NA	1125	NA	NA	467	NA	NA
Total Resolveable Hydrocarbons	mg/kg	248	NA	NA	NA	NA	584	NA	NA	220	NA	NA
Unresolved Complex Mixture	mg/kg	262	NA	NA	NA	NA	541	NA	NA	247	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,1,1-Trichloroethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,1,2,2-Tetrachloroethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,1,2-Trichloroethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 120 U	< 38 U	< 17 U	< 14 U	< 38 U	< 49 U	< 11 U	< 10 U	< 24 U	< 47 U	< 16 U
1,1-Dichloroethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,1-Dichloroethene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,1-Dichloropropene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2,3-Trichlorobenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2,3-Trichloropropane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2,4-Trichlorobenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2,4-Trimethylbenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2-Dibromoethane (EDB)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2-Dichlorobenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2-Dichloroethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,2-Dichloropropane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,3,5-Trimethylbenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,3-Dichlorobenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,3-Dichloropropane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
1,4-Dichlorobenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
2,2-Dichloropropane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
2-Butanone (MEK)	ug/kg	90 J	< 38 U	< 17 U	< 14 U	< 38 U	< 49 U	< 11 U	< 10 U	< 24 U	< 47 U	< 16 U
2-Chlorotoluene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
2-Phenylbutane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
4-Chlorotoluene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 120 U	< 38 U	< 17 U	< 14 U	< 38 U	< 49 U	< 11 U	< 10 U	< 24 U	< 47 U	< 16 U
Acetone	ug/kg	420	66 J	18 J	11 J	60 J	96 J	13 J	8 J	< 49 U	73 J	23 J
Allyl chloride	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Benzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Bromobenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Bromochloromethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Bromodichloromethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Bromoform (Tribromomethane)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U

	Location	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Chemical	**Units**											
Bromomethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Carbon Tetrachloride	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Chlorobenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Chloroethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Chloroform	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Chloromethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
cis-1,2-Dichloroethene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
cis-1,3-Dichloropropene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Dibromochloromethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Dibromomethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Dichlorofluoromethane	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Diethyl ether (Ethyl ether)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Ethylbenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Hexachloro-1,3-Butadiene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Isopropylbenzene (Cumene)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Methylene Chloride (Dichloromethane)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Methyl-tert-butyl ether	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
n-Butylbenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
n-Propylbenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
p-Isopropyltoluene (Cymene)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Styrene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Tert-Butylbenzene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Tetrachloroethene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Tetrahydrofuran	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Toluene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
trans-1,2-Dichloroethene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
trans-1,3-Dichloropropene	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Trichloroethene	ug/kg	< 60 U	< 19 U	< 8 UB	< 7 UB	< 19 U	< 25 U	< 6 U	< 5 UB	3 J	< 23 U	< 8 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Vinyl Chloride	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U
Xylene (Total)	ug/kg	< 60 U	< 19 U	< 8 U	< 7 U	< 19 U	< 25 U	< 6 U	< 5 U	< 12 U	< 23 U	< 8 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA	100
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA	100
Sieve 0.75 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	NA	99.9
Sieve, 4750 micron, % passing	% passing	100	NA	NA	99.5	NA	NA	99.9	NA	NA	NA	99.5
Sieve, 3350 micron, % passing	% passing	100	NA	NA	99.4	NA	NA	99.8	NA	NA	NA	99.0
Sieve, 2360 micron, % passing	% passing	99.9	NA	NA	99.2	NA	NA	99.7	NA	NA	NA	98.0
Sieve, 1180 micron, % passing	% passing	97.4	NA	NA	98.7	NA	NA	99.5	NA	NA	NA	97.6
Sieve, 600 micron, % passing	% passing	79.7	NA	NA	98.3	NA	NA	99.3	NA	NA	NA	89.2
Sieve, 300 micron, % passing	% passing	70.5	NA	NA	97.9	NA	NA	99.1	NA	NA	NA	85.4
Sieve, 150 micron, % passing	% passing	66.5	NA	NA	94.7	NA	NA	98.3	NA	NA	NA	82.8
Sieve, 75 micron, % passing	% passing	63.9	NA	NA	88.6	NA	NA	93.2	NA	NA	NA	79.7
Sieve, 64 micron, % passing	% passing	63.0	NA	NA	84.0	NA	NA	87.0	NA	NA	NA	75.0
Sieve, 50 micron, % passing	% passing	61.0	NA	NA	71.0	NA	NA	76.0	NA	NA	NA	65.0
Sieve, 20 micron, % passing	% passing	52.0	NA	NA	49.0	NA	NA	41.0	NA	NA	NA	45.0
Sieve, 5 micron, % passing	% passing	18.0	NA	NA	22.0	NA	NA	20.0	NA	NA	NA	28.0
Sieve, 2 micron, % passing	% passing	16.0	NA	NA	16.0	NA	NA	15.0	NA	NA	NA	19.5
Sieve, 1 micron, % passing	% passing	15.0	NA	NA	14.0	NA	NA	12.0	NA	NA	NA	13.0
Metals												
Arsenic	mg/kg	6.30	2.37 J	1.83 J	3.23	4.20	4.40	2.42 J	3.56	2.31 J	2.44	9.84 J
Barium	mg/kg	130 J	112 J	76.6 J	86.6	123	125	66.9	64.8	66.1	60.4	171
Cadmium	mg/kg	0.207 J	< 0.662 U	< 0.638 U	0.196 J	0.282 J	0.370 J	0.115 J	0.154 J	0.131 J	0.0907 J	0.742 J
Chromium	mg/kg	26.7 J	17.3 J	14.6 J	13.2 J	17.1 J	18.9 J	11.3 J	11.4 J	12.0 J	10.0 J	25.6 J
Lead	mg/kg	25.8 J	15.3 J	11.0 J	18.2	19.7	22.0	10.7	11.8	10.3	9.16	28.2
Mercury	mg/kg	0.0418 J	0.0425 J	0.0417 J	0.0253 J	0.0322 J	0.0330 J	0.0177 J	0.0155 J	0.0186 J	< 0.117 U	0.0703 J
Nickel	mg/kg	20.9 J	9.81 J	7.41 J	10.2	13.9	15.9	7.75	7.19	7.60	5.73	22.8
Selenium	mg/kg	< 4.98 U	< 2.65 U	< 2.55 U	< 2.75 U	1.08 J	< 3.04 U	< 2.46 U	< 2.45 U	< 2.46 U	< 2.39 U	< 13.2 U
Silver	mg/kg	< 1.24 U	< 0.662 U	< 0.638 U	< 0.687 U	< 0.659 U	< 0.761 U	< 0.614 U	< 0.613 U	< 0.614 U	< 0.596 U	< 3.31 U
Vanadium	mg/kg	43.5 J	31.0 J	25.8 J	22.1	27.9	29.4	19.0	18.9	20.2	14.6	39.4
Other												
Black Carbon	%	0.190 J	NA	NA	< 0.17 U	NA	NA	< 0.18 U	< 0.19 U	NA	NA	0.35 J
Percent Moisture	%	61.0	25.2	23.9	27.9	24.9	35.6	20.2	19.2	20.2	17.0	85.2
Total Organic Carbon	%	4.91	NA	NA	1.93	NA	NA	0.9 J	0.4 J	NA	NA	8.55
Priority PAHs												
1-Methylnaphthalene	ug/kg	6.70	1.63	0.376 J	30.0	255	45.3	4.36	4.09	0.461 J	0.521 J	20.9
2-Methylnaphthalene	ug/kg	16.4	3.73	0.860 J	52.5	314	69.6	6.98	7.41	0.967 J	1.05 J	33.9
Acenaphthene	ug/kg	3.79	1.01	< 0.1 U	5.34	18.0	6.0	0.580 J	< 0.1 UJ	0.106	0.150	3.44
Acenaphthylene	ug/kg	4.31	0.569	< 0.04 U	6.37	15.3	5.5	0.541	0.383	0.105	0.043	11.6
Anthracene	ug/kg	8.58 J	0.661 J	< 0.1 U	3.14	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	15.6
Benzo(a)Anthracene	ug/kg	20.0	1.31	0.181 J	18.2 J	28.4	11.4	1.3	1.17	< 0.2 U	< 0.2 U	16.1
Benzo(a)Pyrene	ug/kg	11.9	< 0.1 U	< 0.1 U	60.4	29.8	21.5	1.81	1.55	< 0.1 U	< 0.1 U	25.5
Benzo(b)Fluoranthene	ug/kg	43.9	5.51	0.419	110	48.4	54.6	4.10	3.48	< 0.2 U	< 0.2 U	72.9
Benzo(g,h,i)Perylene	ug/kg	14.2	1.44	< 0.1 U	89.2	38.2	24.3	3.37	3.29	< 0.1 U	< 0.1 U	66.2
Benzo(j)+(k)Fluoranthene	ug/kg	10.7	1.01	0.099	66.2	28.3	14.4	1.77	1.41	< 0.1 U	< 0.1 U	35.1
Chrysene/Triphenylene	ug/kg	32.3	3.90	0.324	107	101	62.8	7.4	6.62	< 0.1 U	< 0.1 U	36.1
Dibenz(a,h)Anthracene	ug/kg	4.74	1.84	< 0.1 U	22.5 J	10.3	6.21	0.797	0.819	< 0.1 U	< 0.1 U	11.7
Fluoranthene	ug/kg	31.8	4.05	1.35	65.2	64.1	50.2	4.15	4.10	0.956	0.719	45.9
Fluorene	ug/kg	16.0	5.63	2.56	37.4	74.0	30.0	2.75	3.92	1.69	1.65	18.4
Indeno[1,2,3-cd]pyrene	ug/kg	12.6	1.48	< 0.1 U	36.8	16.6	16.7	1.15	1.20	< 0.1 U	< 0.1 U	48.9
Naphthalene	ug/kg	12.7	4.51	1.17	6.72	28.9	11.0	2.69	3.75	< 1.22 UB	1.26	17.0
Phenanthrene	ug/kg	34.2	13.7	6.23	119	250	91.2	11.5	13.4	4.52	4.47	42.6
Pyrene	ug/kg	35.2	2.83	0.621	127	82.5	43.4	6.94	5.97	0.282	0.570	44.5
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	21.2	< 0.2 U	< 0.2 U	149	56.3	37.0	4.69	4.63	< 0.2 U	< 0.2 U	48.0
C1-Chrysenes	ug/kg	71.5	< 0.2 U	< 0.2 U	320	338	112	23.5	19.4	< 0.2 U	< 0.2 U	119
C1-Fluoranthenes/Pyrenes	ug/kg	33.4	2.52	0.403 J	390	347	141	24.4	21.0	0.378 J	0.737	71.5
C1-Fluorenes	ug/kg	10.9	2.25	0.854	167	242	102	10.5	10.5	0.695	0.634	38.1
C1-Phenanthrenes/Anthracenes	ug/kg	37.6	7.11	3.98	643	745	248	33.2	30.2	< 0.1 U	< 0.1 U	92.3
C2-Chrysenes	ug/kg	59.7	< 0.2 U	< 0.2 U	417	372	123	33.4	29.5	< 0.2 U	< 0.2 U	95.9
C2-Fluorenes	ug/kg	41.8	3.36	< 0.4 U	906	594	244	41.8	35.2	< 0.4 U	< 0.4 U	111
C2-Naphthalenes	ug/kg	34.2	9.55	3.17	330	1164	275	29.7	24.3	1.97	1.72	127
C2-Phenanthrenes/Anthracenes	ug/kg	69.0	6.42	< 0.3 U	1529	1288	378	83.8	72.7	< 0.3 U	< 0.3 U	198
C3-Chrysenes	ug/kg	41.4	< 0.2 U	< 0.2 U	351	278	102	27.1	22.1	< 0.2 U	< 0.2 U	62.1
C3-Fluorenes	ug/kg	41.3	< 0.4 U	< 0.4 U	1456	675	295	54.8	48.5	< 0.4 U	< 0.4 U	172
C3-Naphthalenes	ug/kg	50.8	6.48	4.69	784	1181	376	45.8	44.3	3.09	4.28	196
C3-Phenanthrenes/Anthracenes	ug/kg	78.9	1.33	< 0.3 U	1814	1457	472	109	98.7	< 0.3 U	< 0.3 U	258
C4-Chrysenes	ug/kg	23.4	< 0.2 U	< 0.2 U	182	143	56.2	11.3	12.0	< 0.2 U	< 0.2 U	49.4

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	30.6	28.2	5.65	1196	1053	362	59.7	54.5	1.77	< 0.7 U	190
C4-Phenanthrenes/Anthracenes	ug/kg	70.8	1.65	< 0.3 U	1253	879	309	79.7	69.5	< 0.3 U	< 0.3 U	195
Perylene	ug/kg	303	892 EJ	264	38.4	37.5	35.2	1.09 J	1.38 J	1.58 J	2.58 J	197
Phenanthrene, 2-methyl-	ug/kg	13.3	NA	NA	237 J	NA	NA	11.95 J	10.5 J	NA	NA	35.5
1,1-Biphenyl	ug/kg	6.77	NA	NA	11.0	NA	NA	2.21	2.20	NA	NA	8.41
18a-Oleanane	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
1-Methyldibenzothiophene(1MDT)	ug/kg	4.41	NA	NA	227	NA	NA	11.1	9.71	NA	NA	31.4
1-Methylfluorene	ug/kg	6.50	NA	NA	125	NA	NA	7.19	6.41	NA	NA	25.0
1-Methylphenanthrene	ug/kg	7.99	NA	NA	211	NA	NA	9.48	8.57	NA	NA	26.8
2,3,5-Trimethylnaphthalene	ug/kg	4.12	NA	NA	130	NA	NA	6.20	8.63	NA	NA	21.5
2/3-Methyldibenzothiophene(2MDT)	ug/kg	11.0	NA	NA	264	NA	NA	16.0	13.0	NA	NA	38.6
2-Methylanthracene	ug/kg	9.39	NA	NA	18.2	NA	NA	3.36	3.30	NA	NA	9.80
2-Methylfluoranthene	ug/kg	4.98	NA	NA	39	NA	NA	2.23	1.72	NA	NA	6.11
3,6-Dimethylphenanthrene	ug/kg	4.27	NA	NA	112	NA	NA	5.90	4.14	NA	NA	11.2
3-Methylphenanthrene (3MP)	ug/kg	11.6	NA	NA	184	NA	NA	10.2	9.74	NA	NA	26.9
4-Methyldibenzothiophene(4MDT)	ug/kg	11.9	NA	NA	396	NA	NA	19.8	17.3	NA	NA	50.4
9/4-Methylphenanthrene (9MP)	ug/kg	8.21	NA	NA	280	NA	NA	13.1	11.6	NA	NA	42.5
Benzo(a)Fluoranthene	ug/kg	10.3	NA	NA	< 0.1 U	NA	NA	< 0.1 U	< 0.1 U	NA	NA	16.9
Benzo(b)fluorene	ug/kg	9.60	NA	NA	22.3 J	NA	NA	1.45	1.38	NA	NA	11.8
Benzothiophene	ug/kg	1.61	NA	NA	1.98	NA	NA	0.164	0.299	NA	NA	< 0.5 U
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	36.6	NA	NA	1.41	1.66	NA	NA	< 0.9 U
C1-Decalins	ug/kg	< 0.3 U	NA	NA	72.8	NA	NA	0.632 J	1.16 J	NA	NA	< 1.3 U
C1-Dibenzothiophenes	ug/kg	16.0	1.21	< 0.1 U	772.6	939	273	40.8	34.8	0.447	0.269	94.7
C1-Naphthalenes	ug/kg	14.3	3.31	0.764 J	44.4	305	61.8	6.10	6.20	0.771 J	0.85 J	36.9
C1-Naphthobenzothiophenes	ug/kg	106	NA	NA	515	NA	NA	43.7	34.9	NA	NA	114
C20-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
C21-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
C26(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
C27(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
C28(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
C28(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U
C29-Hopane	ug/kg	< 0.6 U	NA	NA	2156	NA	NA	89.8	85.8	NA	NA	< 2.9 U
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	88.2	NA	NA	7.08	5.90	NA	NA	< 0.9 U
C2-Decalins	ug/kg	< 0.3 U	NA	NA	293	NA	NA	1.74 J	4.51 J	NA	NA	< 1.3 U
C2-Dibenzothiophenes	ug/kg	36.5	0.923	< 0.2 U	1812	1613	509	94.4	85.5	0.643	0.435	213
C2-Fluoranthenes/Pyrenes	ug/kg	77.2	< 0.5 U	< 0.5 U	465	521	179	35.8	28.8	< 0.5 U	< 0.5 U	108
C2-Naphthobenzothiophenes	ug/kg	184	NA	NA	818	NA	NA	69.7	58.3	NA	NA	197
C30-Hopane	ug/kg	< 0.6 U	NA	NA	3003	NA	NA	120	114	NA	NA	< 2.9 U
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	288	NA	NA	15.0	19.4	NA	NA	< 0.9 U
C3-Decalins	ug/kg	< 0.3 U	NA	NA	1005	NA	NA	12.8	21.0	NA	NA	< 1.3 U
C3-Dibenzothiophenes	ug/kg	79.9	0.470	< 0.2 U	2675	1803	615	155	132	0.775	0.351	323
C3-Fluoranthenes/Pyrenes	ug/kg	49.7	< 0.5 U	< 0.5 U	441	334	158	34.5	27.2	< 0.5 U	< 0.5 U	80.9
C3-Naphthobenzothiophenes	ug/kg	148	NA	NA	593	NA	NA	59.0	42.3	NA	NA	155
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	557	NA	NA	21.1	19.2	NA	NA	< 0.9 U
C4-Decalins	ug/kg	< 0.3 U	NA	NA	1064	NA	NA	34.6	39.7	NA	NA	< 1.3 U
C4-Dibenzothiophenes	ug/kg	69.9	0.850	< 0.2 U	1881	1223	433	108	93.6	< 0.2 U	< 0.2 U	246
C4-Fluoranthenes/Pyrenes	ug/kg	59.4	< 0.5 U	< 0.5 U	494	409	161	36.1	28.8	< 0.5 U	< 0.5 U	89.3
C4-Naphthobenzothiophenes	ug/kg	69.1	NA	NA	338	NA	NA	32.3	22.4	NA	NA	76.6
Carbazole	ug/kg	4.04	NA	NA	8.54	NA	NA	0.706	0.469	NA	NA	8.36
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	28.5	NA	NA	18.3 J	NA	NA	1.10	1.77	NA	NA	38.1
Dibenzofuran	ug/kg	9.36	NA	NA	14.9 J	NA	NA	1.66	2.44	NA	NA	10.7
Dibenzothiophene	ug/kg	8.64	1.37	0.214	142.3	221	84.2	9.5	8.18	0.500	0.336	31.2
Naphthalene, 2,6-dimethyl-	ug/kg	20.0	NA	NA	174	NA	NA	16.8	13.7	NA	NA	50.9
Naphthobenzothiophene	ug/kg	35.0	NA	NA	172	NA	NA	15.6	12.4	NA	NA	37.0
Retene	ug/kg	8.14	NA	NA	120	NA	NA	7.33 J	14.9 J	NA	NA	27.3
TPH												
EOM (Extracted Organic Material)	mg/kg	2101	NA	76 J	5024	NA	NA	332	277	NA	NA	5132
i-C15	mg/kg	0.033	NA	0.006 J	1.092	NA	NA	0.004 J	0.037	NA	NA	0.141
i-C16	mg/kg	0.084	NA	0.008	1.658	NA	NA	0.014 J	0.033 J	NA	NA	0.612
i-C18	mg/kg	0.043	NA	0.008	1.387	NA	NA	0.066	0.061	NA	NA	0.201
n-C10 (n-Decane)	mg/kg	0.016 J	NA	0.006 J	0.016 J	NA	NA	< 0.021 U	< 0.021 U	NA	NA	0.010 J
n-C11 (n-Undecane)	mg/kg	0.025	NA	0.007 J	0.020	NA	NA	0.003 J	0.003 J	NA	NA	0.042
n-C12 (n-Dodecane)	mg/kg	0.029	NA	0.015 J	0.148	NA	NA	0.010 J	0.025	NA	NA	0.065
n-C13 (n-Tridecane)	mg/kg	0.036 J	NA	0.014 J	0.201	NA	NA	0.006 J	0.020 J	NA	NA	0.091
n-C14 (n-Tetradecane)	mg/kg	0.049	NA	0.026	0.393	NA	NA	0.028	0.052	NA	NA	0.153
n-C15 (Pentadecane)	mg/kg	0.272	NA	0.071	0.593	NA	NA	0.035	0.032	NA	NA	0.267

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	0.035	NA	0.040	0.373	NA	NA	0.042	0.069	NA	NA	0.172
n-C17 (Heptadecane)	mg/kg	0.236	NA	0.014	0.990	NA	NA	0.044	0.060	NA	NA	0.711
n-C18 (Octadecane)	mg/kg	0.753	NA	0.049	0.740	NA	NA	0.064	0.082	NA	NA	1.402
n-C19 (Nonadecane)	mg/kg	0.742	NA	0.029	0.638	NA	NA	0.046	0.056	NA	NA	1.100
n-C20 (Eicosane)	mg/kg	0.144	NA	0.008 J	0.452	NA	NA	0.032	0.040	NA	NA	0.179
n-C21 (Heneicosane)	mg/kg	1.59	NA	0.012	0.442	NA	NA	0.041	0.046	NA	NA	3.347
n-C22 (Docosane)	mg/kg	0.257	NA	0.011	0.246	NA	NA	0.028	0.038	NA	NA	0.392
n-C23 (Tricosane)	mg/kg	3.03	NA	0.034	0.262	NA	NA	0.043	0.048	NA	NA	3.971
n-C24 (Tetracosane)	mg/kg	0.319	NA	0.015	0.548	NA	NA	0.061	0.068	NA	NA	0.766
n-C25 (Pentacosane)	mg/kg	1.88	NA	0.045	0.666	NA	NA	0.095	0.110	NA	NA	4.088
n-C26 (Hexacosane)	mg/kg	0.251	NA	0.009	0.486	NA	NA	0.075	0.097	NA	NA	0.525
n-C27 (Heptacosane)	mg/kg	2.50	NA	0.046	0.895	NA	NA	0.162	0.179	NA	NA	5.039
n-C28 (Octacosane)	mg/kg	0.664	NA	0.009 J	0.484	NA	NA	0.133	0.143	NA	NA	1.088
n-C29 (Nonacosane)	mg/kg	6.567	NA	0.088	2.401 J	NA	NA	0.340	0.355	NA	NA	7.876
n-C30 (n-Triacontane)	mg/kg	0.682	NA	0.016	0.521	NA	NA	0.110	0.106	NA	NA	0.463
n-C31 (Hentriacontane)	mg/kg	9.38	NA	0.108	3.104	NA	NA	0.376	0.350	NA	NA	12.187
n-C32 (Dotriacontane)	mg/kg	0.298	NA	0.035	0.429	NA	NA	0.035	0.039	NA	NA	1.187
n-C33	mg/kg	15.2	NA	0.116	0.960	NA	NA	0.144	0.184	NA	NA	17.630
n-C34 (Tetratriacontane)	mg/kg	1.36	NA	0.013 J	0.098	NA	NA	0.026	0.032	NA	NA	1.039
n-C35	mg/kg	8.62	NA	0.068	0.799	NA	NA	0.073	0.060	NA	NA	12.806
n-C36 (Hexatriacontane)	mg/kg	0.409	NA	< 0.016 U	0.053	NA	NA	0.011 J	0.029	NA	NA	0.523
n-C37	mg/kg	1.81	NA	< 0.017 U	0.691	NA	NA	0.043	0.044	NA	NA	0.833
n-C38 (Octatriacontane)	mg/kg	0.171	NA	< 0.019 U	0.037	NA	NA	0.010 J	0.011 J	NA	NA	0.392
n-C39 (Nonatriacontane)	mg/kg	0.362	NA	< 0.019 U	< 0.019 U	NA	NA	0.005 J	0.002 J	NA	NA	0.726
n-C40 (Tetracontane)	mg/kg	0.147	NA	< 0.019 U	< 0.019 U	NA	NA	0.005 J	0.009 J	NA	NA	0.059
n-C9 (Nonane)	mg/kg	< 0.012 U	NA	< 0.012 U	0.014	NA	NA	< 0.012 U	< 0.012 U	NA	NA	< 0.012 U
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.291	NA	0.010	3.175	NA	NA	0.177	0.159	NA	NA	0.794
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.161	NA	0.014	2.535 J	NA	NA	0.137	0.126	NA	NA	0.534
Total Alkanes	mg/kg	58.5	NA	1.0	27.5	NA	NA	2.5	2.8	NA	NA	81.4
Total Petroleum Hydrocarbons	mg/kg	692	NA	67	2832	NA	NA	322	243	NA	NA	1469
Total Resolveable Hydrocarbons	mg/kg	343	NA	17	259	NA	NA	23	17	NA	NA	636
Unresolved Complex Mixture	mg/kg	349	NA	50	2573	NA	NA	299	226	NA	NA	833
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,1,1-Trichloroethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,1,2,2-Tetrachloroethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,1,2-Trichloroethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 33 U	< 14 U	< 12 U	< 13 U	< 13 U	< 16 U	< 10 U	< 10 U	< 11 U	< 10 U	< 98 U
1,1-Dichloroethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,1-Dichloroethene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,1-Dichloropropene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2,3-Trichlorobenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2,3-Trichloropropane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2,4-Trichlorobenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2,4-Trimethylbenzene	ug/kg	< 17 U	< 7 U	< 6 U	5 J	2 J	16	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2-Dibromoethane (EDB)	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2-Dichlorobenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2-Dichloroethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,2-Dichloropropane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,3,5-Trimethylbenzene	ug/kg	< 17 U	< 7 U	< 6 U	3 J	2 J	10	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,3-Dichlorobenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,3-Dichloropropane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
1,4-Dichlorobenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
2,2-Dichloropropane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
2-Butanone (MEK)	ug/kg	< 33 U	< 14 U	< 12 U	< 13 U	< 13 U	< 16 U	< 10 U	< 10 U	< 11 U	< 10 U	< 98 U
2-Chlorotoluene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
2-Phenylbutane	ug/kg	< 17 U	< 7 U	< 6 U	1 J	< 6 U	2 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
4-Chlorotoluene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 33 U	< 14 U	< 12 U	< 13 U	< 13 U	< 16 U	< 10 U	< 10 U	< 11 U	< 10 U	< 98 U
Acetone	ug/kg	65 J	12 J	< 23 U	18 J	26	31	8 J	12 J	< 21 U	< 20 U	230
Allyl chloride	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Benzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	4 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Bromobenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Bromochloromethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Bromodichloromethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Bromoform (Tribromomethane)	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Chemical	**Units**											
Bromomethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Carbon Tetrachloride	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Chlorobenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Chloroethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Chloroform	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Chloromethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
cis-1,2-Dichloroethene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
cis-1,3-Dichloropropene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Dibromochloromethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Dibromomethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Dichlorofluoromethane	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Diethyl ether (Ethyl ether)	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Ethylbenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	4 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Hexachloro-1,3-Butadiene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Isopropylbenzene (Cumene)	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	2 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Methylene Chloride (Dichloromethane)	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Methyl-tert-butyl ether	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
n-Butylbenzene	ug/kg	< 17 U	< 7 U	< 6 U	2 J	< 6 U	2 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
n-Propylbenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	4 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
p-Isopropyltoluene (Cymene)	ug/kg	< 17 U	< 7 U	< 6 U	2 J	< 6 U	3 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Styrene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Tert-Butylbenzene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 UJ	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Tetrachloroethene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Tetrahydrofuran	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Toluene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	3 J	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
trans-1,2-Dichloroethene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
trans-1,3-Dichloropropene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Trichloroethene	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	19 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Vinyl Chloride	ug/kg	< 17 U	< 7 U	< 6 U	< 6 U	< 6 U	< 8 U	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U
Xylene (Total)	ug/kg	< 17 U	< 7 U	< 6 U	2 J	3 J	26	< 5 U	< 5 U	< 5 U	< 5 U	< 49 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
Sample ID		SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	99.8	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	99.6	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.6	NA	NA	99.9	NA	NA	98.9	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	89.6	NA	NA	98.9	NA	NA	98.5	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	80.8	NA	NA	98.0	NA	NA	97.6	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	73.7	NA	NA	96.9	NA	NA	96.1	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	66.9	NA	NA	96.0	NA	NA	94.5	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	61.2	NA	NA	92.7	NA	NA	93.3	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	61.0	NA	NA	86.0	NA	NA	92.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	61.0	NA	NA	70.0	NA	NA	88.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	52.0	NA	NA	43.0	NA	NA	76.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	33.0	NA	NA	17.0	NA	NA	37.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	23.0	NA	NA	7.0	NA	NA	20.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	17.0	NA	NA	3.0	NA	NA	12.0	NA	NA
Metals												
Arsenic	mg/kg	6.68 J	5.14	6.99	4.72	3.47	8.33	4.38	5.65	8.11	6.40	4.62
Barium	mg/kg	143	119	135	112	105	167	93.8	209	168	139	112
Cadmium	mg/kg	0.523 J	0.408 J	< 1.52 U	< 0.694 U	< 0.626 U	< 0.872 U	< 0.640 U	< 0.620 U	< 0.924 U	< 0.616 U	< 0.606 U
Chromium	mg/kg	19.4 J	16.4 J	21.9 J	17.7 J	19.2 J	21.1 J	16.0 J	14.5 J	18.7 J	12.9 J	16.7 J
Lead	mg/kg	24.6	19.4	24.6	19.7	15.3	36.0	18.9	14.6	35.2	18.7	13.1
Mercury	mg/kg	0.0457 J	0.0462 J	0.0552 J	0.0413 J	0.0240 J	0.0618 J	0.0507 J	0.0262 J	0.0766 J	0.0357 J	0.0158 J
Nickel	mg/kg	16.7	13.7	17.4	11.1	9.39	18.5	14.9	10.3	17.2	10.8	7.04
Selenium	mg/kg	< 7.36 U	< 5.13 U	< 6.07 U	1.19 J	1.29 J	< 3.49 U	< 2.56 U	< 2.48 U	< 3.70 U	< 2.46 U	< 2.43 U
Silver	mg/kg	< 1.84 U	< 1.28 U	< 1.52 U	< 0.694 U	< 0.626 U	< 0.872 U	< 0.640 U	< 0.620 U	< 0.924 U	< 0.616 U	< 0.606 U
Vanadium	mg/kg	32.2	26.5	38.1	37.1	39.1	36.4	26.4	25.6	33.3	27.1	32.6
Other												
Black Carbon	%	NA	NA	< 0.19 U	NA	NA	0.2 J	NA	NA	0.24 J	NA	NA
Percent Moisture	%	73.1	61.8	67.7	29.4	23.2	43.8	22.6	20.1	45.9	21.2	20.7
Total Organic Carbon	%	NA	NA	4.27	NA	NA	3.66	NA	NA	6.03	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	3.85	2.44	6.74 J	2.69	1.51	58.8	13.6	1.86	29.6	3.04	3.12
2-Methylnaphthalene	ug/kg	9.03	5.35	13.2 J	5.57	3.16	89.3	22.5	3.76	42.8	5.88	5.84
Acenaphthene	ug/kg	2.46	1.08	1.55	0.578	0.319	7.61	1.26	0.089	3.47	0.297	0.238
Acenaphthylene	ug/kg	6.30	2.66	1.43	0.554	0.155	9.75	1.13	0.131	6.45	0.385	0.092
Anthracene	ug/kg	13.6	5.00	2.09	0.760	0.154	6.31	< 0.1 U	< 0.1 U	< 0.6 U	0.264	< 0.1 U
Benzo(a)Anthracene	ug/kg	10.5	5.47	2.62	1.19	0.227	22.0	1.31	0.307	15.5	< 0.2 U	< 0.2 U
Benzo(a)Pyrene	ug/kg	9.81	4.58	3.27	1.16	< 0.1 U	21.3	2.69	0.136	17.7	0.802	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	41.5	25.2	10.9 J	5.82	2.08	53.9	9.77	0.799	46.7	3.23	0.377
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	7.77	5.96	2.13	0.402	44.9	4.76	0.390	32.8	0.954	0.188
Benzo(j)+(k)Fluoranthene	ug/kg	11.8	6.01	2.29	1.03	0.196	15.9	2.44	0.179	14.8	0.685	0.064 J
Chrysene/Triphenylene	ug/kg	22.8	14.1	9.00	4.55	1.74	153	15.6	0.968	113	< 0.1 U	< 0.1 U
Dibenz(a,h)Anthracene	ug/kg	6.89	3.58	2.54	1.37	0.166	9.83	1.20	0.113	7.25	0.351	0.277
Fluoranthene	ug/kg	24.0	12.0	9.81 J	4.98	1.62	51.4	11.3	1.70	47.1	3.37	1.54
Fluorene	ug/kg	12.2	7.45	9.75 J	4.41	3.85	46.1	8.59	3.37	16.5	4.13	5.02
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	8.25	5.30	2.16	0.488	17.4	2.65	0.249	14.0	0.914	< 0.1 U
Naphthalene	ug/kg	9.78	5.65	11.9 J	6.95	4.92	15.3	12.2	3.72	14.6	7.42	6.23
Phenanthrene	ug/kg	24.4	14.1	23.1 J	10.9	8.89	225	39.6	10.2	161	11.7	12.1
Pyrene	ug/kg	19.8	9.74	8.05 J	3.55	1.20	101	12.5	1.36	65.4	2.66	1.16
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	16.0	10.1	5.64 J	2.90	< 0.2 U	53.4	6.82	0.614	43.8	1.52	< 0.2 U
C1-Chrysenes	ug/kg	42.0	49.7	48.1	28.2	< 0.2 U	335	34.9	2.60	236	8.20	4.89
C1-Fluoranthenes/Pyrenes	ug/kg	18.8	12.6	9.47	4.17	0.928	355	31.4	1.72	201	3.44	0.819
C1-Fluorenes	ug/kg	3.50	2.47	7.35	2.55	1.69	215	20.7	2.16	89.7	2.56	2.29
C1-Phenanthrenes/Anthracenes	ug/kg	26.4	16.8	14.4	6.15	3.99	831	77.4	6.83	516	9.28	4.34
C2-Chrysenes	ug/kg	36.7	28.1	20.7	7.14	< 0.2 U	484	38.9	3.07	324	4.96	< 0.2 U
C2-Fluorenes	ug/kg	13.6	8.74	20.4	7.32	4.79	628	64.2	6.62	314	7.91	2.88
C2-Naphthalenes	ug/kg	18.9	13.2	23.7	8.24	4.10	614	63.7	6.30	252	9.50	8.84
C2-Phenanthrenes/Anthracenes	ug/kg	26.0	23.9	22.5	8.84	< 0.3 U	1570	138	10.6	1008	14.7	4.31
C3-Chrysenes	ug/kg	19.5	18.9	18.1	9.10	< 0.2 U	407	28.5	2.58	254	4.08	< 0.2 U
C3-Fluorenes	ug/kg	9.80	6.80	16.5	6.16	< 0.4 U	920	71.7	6.63	501	12.5	< 0.4 U
C3-Naphthalenes	ug/kg	18.8	11.9	26.1	13.3	8.87	1196	101	8.54	590	13.0	7.79
C3-Phenanthrenes/Anthracenes	ug/kg	26.8	18.4	21.1	6.09	< 0.3 U	1736	145	10.3	1088	16.7	0.940
C4-Chrysenes	ug/kg	13.8	13.8	7.08	< 0.2 U	< 0.2 U	164	16.9	< 0.2 U	125	< 0.2 U	< 0.2 U

	Location	SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	13.4	6.88	17.3	5.76	2.94	1474	97.3	8.10	697	10.6	4.88
C4-Phenanthrenes/Anthracenes	ug/kg	17.3	16.2	17.1	6.39	< 0.3 U	1194	107	6.67	758	11.0	< 0.3 U
Perylene	ug/kg	397	324	145	94.4 J	226	15.6	29.8	R	24.9	111 J	212.1 J
Phenanthrene, 2-methyl-	ug/kg	NA	NA	4.61 J	NA	NA	288 J	NA	NA	182 J	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	3.62	NA	NA	16.5	NA	NA	9.97	NA	NA
18a-Oleanane	ug/kg	NA	NA	< 0.6 U	NA	NA	< 2.9 U	NA	NA	< 2.9 U	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	2.47	NA	NA	274	NA	NA	158	NA	NA
1-Methylfluorene	ug/kg	NA	NA	4.01	NA	NA	152	NA	NA	61.6	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	3.17	NA	NA	187	NA	NA	123	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	3.19	NA	NA	184	NA	NA	82.6	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	3.60	NA	NA	369	NA	NA	234	NA	NA
2-Methylanthracene	ug/kg	NA	NA	3.11	NA	NA	16.8	NA	NA	9.05	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	1.11 J	NA	NA	35.4	NA	NA	25.8	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	1.15	NA	NA	100	NA	NA	76.4	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	4.08	NA	NA	208	NA	NA	131	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	4.79 J	NA	NA	446	NA	NA	287	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	3.79	NA	NA	386	NA	NA	228	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	2.44	NA	NA	12.2	NA	NA	< 0.5 U	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	2.19 J	NA	NA	27.8	NA	NA	17.3	NA	NA
Benzothiophene	ug/kg	NA	NA	0.789	NA	NA	3.31	NA	NA	2.06	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	44.3	NA	NA	17.9	NA	NA
C1-Decalins	ug/kg	NA	NA	36.4	NA	NA	14.7	NA	NA	13.8	NA	NA
C1-Dibenzothiophenes	ug/kg	7.52	4.82	9.11	2.18	0.443	914	79.1	4.84	570	6.23	0.858
C1-Naphthalenes	ug/kg	8.29	5.02	13.0	5.38	3.04	96.0	23.4	3.66	46.9	5.81	5.83
C1-Naphthobenzothiophenes	ug/kg	NA	NA	15.9	NA	NA	681	NA	NA	468	NA	NA
C20-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	51.0	NA	NA	36.9	NA	NA
C21-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	55.5	NA	NA	39.8	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	170	NA	NA	129	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	54.7	NA	NA	46.6	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	120	NA	NA	52.2	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	120	NA	NA	87.9	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	140	NA	NA	106	NA	NA
C29-Hopane	ug/kg	NA	NA	32.8	NA	NA	908	NA	NA	729	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	128	NA	NA	16.1	NA	NA
C2-Decalins	ug/kg	NA	NA	3.90	NA	NA	89.4	NA	NA	48.3	NA	NA
C2-Dibenzothiophenes	ug/kg	14.4	10.0	15.9	3.99	< 0.2 U	1803	147	8.74	1257	13.4	1.22
C2-Fluoranthenes/Pyrenes	ug/kg	30.6	21.2	18.4	5.59	< 0.5 U	476	50.4	3.06	339	5.23	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	NA	32.6	NA	NA	1008	NA	NA	715	NA	NA
C30-Hopane	ug/kg	NA	NA	28.5	NA	NA	1223	NA	NA	1035	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	363	NA	NA	119	NA	NA
C3-Decalins	ug/kg	NA	NA	8.57	NA	NA	402	NA	NA	226	NA	NA
C3-Dibenzothiophenes	ug/kg	21.5	15.7	23.0	6.26	< 0.2 U	2264	173	10.8	1553	15.6	1.12
C3-Fluoranthenes/Pyrenes	ug/kg	19.9	15.4	14.0	4.42	< 0.5 U	475	40.0	2.25	347	3.30	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	NA	29.7	NA	NA	783	NA	NA	565	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	564	NA	NA	249	NA	NA
C4-Decalins	ug/kg	NA	NA	12.7	NA	NA	595	NA	NA	380	NA	NA
C4-Dibenzothiophenes	ug/kg	25.0	17.0	18.8	5.85	< 0.2 U	1537	117	7.33	1191	11.9	0.651
C4-Fluoranthenes/Pyrenes	ug/kg	16.3	14.0	19.5	11.5	< 0.5 U	368	37.2	3.45	364	6.28	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	NA	11.4	NA	NA	423	NA	NA	324	NA	NA
Carbazole	ug/kg	NA	NA	1.10	NA	NA	8.68	NA	NA	8.27	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	13.6 J	NA	NA	7.19	NA	NA	7.46	NA	NA
Dibenzofuran	ug/kg	NA	NA	6.84	NA	NA	24.7	NA	NA	12.6	NA	NA
Dibenzothiophene	ug/kg	5.38	3.03	3.87 J	1.30	0.519	263	23.3	1.58	144	1.86	0.828
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	10.7 J	NA	NA	267	NA	NA	108	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	5.68	NA	NA	256	NA	NA	183	NA	NA
Retene	ug/kg	NA	NA	4.23 J	NA	NA	132	NA	NA	101	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	933	NA	NA	6440	NA	NA	5575	NA	NA
i-C15	mg/kg	NA	NA	0.023	NA	NA	0.936	NA	NA	0.487	NA	NA
i-C16	mg/kg	NA	NA	0.042	NA	NA	1.732	NA	NA	0.863	NA	NA
i-C18	mg/kg	NA	NA	0.016	NA	NA	1.611	NA	NA	0.916	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.011 J	NA	NA	0.020 J	NA	NA	0.023	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.024	NA	NA	0.033	NA	NA	0.045	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.062	NA	NA	0.126	NA	NA	0.099	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.047	NA	NA	0.317	NA	NA	0.181	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.106	NA	NA	0.670	NA	NA	0.354	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.061	NA	NA	1.006	NA	NA	1.285	NA	NA

	Location	SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.071	NA	NA	1.030	NA	NA	0.498	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.091	NA	NA	0.691	NA	NA	0.374	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	0.319	NA	NA	1.230	NA	NA	0.879	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.401	NA	NA	1.243	NA	NA	0.687	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.055	NA	NA	0.655	NA	NA	0.348	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	0.601	NA	NA	1.276	NA	NA	1.765	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.104	NA	NA	1.269	NA	NA	1.106	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	0.988	NA	NA	1.341	NA	NA	1.291	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.170	NA	NA	0.624	NA	NA	0.530	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	0.804	NA	NA	1.025	NA	NA	1.798	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	1.160	NA	NA	0.602	NA	NA	0.678	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	1.355 J	NA	NA	2.889	NA	NA	5.400	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.410	NA	NA	1.119	NA	NA	1.245	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	4.489	NA	NA	3.775	NA	NA	9.887	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.387	NA	NA	1.137	NA	NA	1.498	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	5.046	NA	NA	6.704	NA	NA	10.512	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.429	NA	NA	1.721	NA	NA	4.199	NA	NA
n-C33	mg/kg	NA	NA	6.953	NA	NA	15.660	NA	NA	24.357	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	0.596	NA	NA	0.760	NA	NA	3.041	NA	NA
n-C35	mg/kg	NA	NA	2.277 J	NA	NA	5.847	NA	NA	10.723	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.558	NA	NA	0.246	NA	NA	0.893	NA	NA
n-C37	mg/kg	NA	NA	1.045	NA	NA	1.194	NA	NA	6.603	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.165	NA	NA	0.115	NA	NA	0.638	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.239	NA	NA	0.279	NA	NA	0.294	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	0.040	NA	NA	0.173	NA	NA	0.155	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	< 0.012 U	NA	NA	< 0.012 U	NA	NA	< 0.012 U	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.106	NA	NA	2.246	NA	NA	1.591	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.083	NA	NA	2.177	NA	NA	1.412	NA	NA
Total Alkanes	mg/kg	NA	NA	29.3	NA	NA	63.5	NA	NA	96.7	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	415	NA	NA	2604	NA	NA	2542	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	178	NA	NA	354	NA	NA	448	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	237	NA	NA	2249	NA	NA	2093	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,1,1-Trichloroethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,1,2,2-Tetrachloroethane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,1,2-Trichloroethane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 52 U	< 55 U	< 43 U	< 13 U	< 12 U	< 20 U	< 12 U	< 13 U	< 21 U	< 12 U	< 11 U
1,1-Dichloroethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,1-Dichloroethene	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,1-Dichloropropene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,2,3-Trichlorobenzene	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,2,3-Trichloropropane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,2,4-Trichlorobenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,2,4-Trimethylbenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	4 J	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,2-Dibromoethane (EDB)	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,2-Dichlorobenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,2-Dichloroethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,2-Dichloropropane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,3,5-Trimethylbenzene	ug/kg	< 26 U	< 28 U	10 J	< 7 U	< 6 U	3 J	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,3-Dichlorobenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
1,3-Dichloropropane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
1,4-Dichlorobenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
2,2-Dichloropropane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
2-Butanone (MEK)	ug/kg	< 52 U	< 55 U	22 J	< 13 U	< 12 U	< 20 U	< 12 U	< 13 U	8 J	< 12 U	< 11 U
2-Chlorotoluene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
2-Phenylbutane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
4-Chlorotoluene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 52 U	< 55 U	< 43 U	< 13 U	< 12 U	< 20 U	< 12 U	< 13 U	< 21 U	< 12 U	< 11 U
Acetone	ug/kg	120	110	130	22 J	12 J	41	15 J	< 27 U	46	< 23 U	< 22 U
Allyl chloride	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Benzene	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Bromobenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
Bromochloromethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Bromodichloromethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Bromoform (Tribromomethane)	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U

	Location	SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Chemical	**Units**											
Bromomethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Carbon Tetrachloride	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Chlorobenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Chloroethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Chloroform	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Chloromethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
cis-1,2-Dichloroethene	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
cis-1,3-Dichloropropene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Dibromochloromethane	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Dibromomethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Dichlorofluoromethane	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Diethyl ether (Ethyl ether)	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Ethylbenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Hexachloro-1,3-Butadiene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
Isopropylbenzene (Cumene)	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Methylene Chloride (Dichloromethane)	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Methyl-tert-butyl ether	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
n-Butylbenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
n-Propylbenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
p-Isopropyltoluene (Cymene)	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	3 J	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
Styrene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Tert-Butylbenzene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 UJ	< 6 U	< 7 U	< 10 UJ	< 6 U	< 5 U
Tetrachloroethene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Tetrahydrofuran	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Toluene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	4 J	< 6 U	< 5 U
trans-1,2-Dichloroethene	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
trans-1,3-Dichloropropene	ug/kg	< 26 U	< 28 U	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Trichloroethene	ug/kg	11 J	15 J	< 21 UJ	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Vinyl Chloride	ug/kg	< 26 U	< 28 U	< 21 U	< 7 U	< 6 U	< 10 U	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U
Xylene (Total)	ug/kg	< 26 U	< 28 U	12 J	< 7 U	< 6 U	3 J	< 6 U	< 7 U	< 10 U	< 6 U	< 5 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	NA	100	NA	NA	100
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	NA	100	NA	NA	100
Sieve 0.75 inch, % passing	% passing	100	NA	NA	100	NA	NA	NA	100	NA	NA	100
Sieve, 4750 micron, % passing	% passing	100	NA	NA	100	NA	NA	NA	99.9	NA	NA	99.8
Sieve, 3350 micron, % passing	% passing	99.8	NA	NA	100	NA	NA	NA	99.7	NA	NA	99.5
Sieve, 2360 micron, % passing	% passing	99.7	NA	NA	100	NA	NA	NA	99.2	NA	NA	98.8
Sieve, 1180 micron, % passing	% passing	98.4	NA	NA	99.5	NA	NA	NA	97.8	NA	NA	98.3
Sieve, 600 micron, % passing	% passing	96.8	NA	NA	98.5	NA	NA	NA	96.3	NA	NA	97.2
Sieve, 300 micron, % passing	% passing	95.8	NA	NA	97.3	NA	NA	NA	94.7	NA	NA	95.6
Sieve, 150 micron, % passing	% passing	94.8	NA	NA	95.4	NA	NA	NA	92.8	NA	NA	94.4
Sieve, 75 micron, % passing	% passing	94.1	NA	NA	88.3	NA	NA	NA	89.2	NA	NA	93.3
Sieve, 64 micron, % passing	% passing	93.0	NA	NA	85.0	NA	NA	NA	85.0	NA	NA	93.0
Sieve, 50 micron, % passing	% passing	88.5	NA	NA	77.5	NA	NA	NA	78.0	NA	NA	90.5
Sieve, 20 micron, % passing	% passing	73.0	NA	NA	52.0	NA	NA	NA	51.0	NA	NA	82.0
Sieve, 5 micron, % passing	% passing	38.0	NA	NA	13.0	NA	NA	NA	21.0	NA	NA	43.0
Sieve, 2 micron, % passing	% passing	21.0	NA	NA	6.5	NA	NA	NA	13.5	NA	NA	24.0
Sieve, 1 micron, % passing	% passing	10.0	NA	NA	2.0	NA	NA	NA	11.0	NA	NA	13.0
Metals												
Arsenic	mg/kg	3.79 J	6.55	2.07 J	5.26	5.64	8.12	5.27	5.37	6.31	4.75	11.5
Barium	mg/kg	69.4	132	86.3	98.4	99.6	175	102	110	140	78.6	202
Cadmium	mg/kg	< 1.07 U	< 0.827 U	0.168 J	< 0.771 U	< 0.800 U	< 0.829 U	< 0.635 U	< 0.640 U	< 0.632 U	< 0.634 U	< 1.22 U
Chromium	mg/kg	8.92	16.1	12.2 J	14.5 J	14.7 J	20.6 J	16.3 J	16.3 J	14.4 J	14.2 J	25.7 J
Lead	mg/kg	14.0	22.5	10.4	19.4	21.2	260	13.2	22.0	16.2	12.3	38.8
Mercury	mg/kg	< 0.209 U	0.0470 J	0.0533 J	0.0386 J	0.0383 J	0.0619 J	0.0233 J	0.0417 J	0.0264 J	0.0190 J	0.0979 J
Nickel	mg/kg	7.82	14.0	9.37	11.5	11.8	17.3	11.1	12.9	15.3	11.6	24.9
Selenium	mg/kg	< 4.27 U	< 3.31 U	< 2.50 U	< 3.08 U	< 3.20 U	< 3.32 U	< 2.54 U	< 2.56 U	< 2.53 U	< 2.53 U	< 4.87 U
Silver	mg/kg	< 1.07 U	< 0.827 U	< 0.625 U	< 0.771 U	< 0.800 U	< 0.829 U	< 0.635 U	< 0.640 U	< 0.632 U	< 0.634 U	< 1.22 U
Vanadium	mg/kg	15.5	27.9	21.4	24.4	25.2	35.8	27.2	27.1	26.0	24.4	41.2
Other												
Black Carbon	%	0.24 J	NA	NA	< 0.17 U	0.17 J	NA	NA	0.16 J	NA	NA	0.28 J
Percent Moisture	%	53.2	40.7	23.1	35.8	38.7	40.3	21.2	24.9	23.9	23.4	59.3
Total Organic Carbon	%	4.64	NA	NA	3.36	3.3	NA	NA	3.17	NA	NA	6.41
Priority PAHs												
1-Methylnaphthalene	ug/kg	371	64.2	0.73	105	131	69.1	1.83	19.8	4.13	1.48	127
2-Methylnaphthalene	ug/kg	492	87.5	1.41	141	184	101	3.56	26.1	7.97	2.91	171
Acenaphthene	ug/kg	26.8	7.83	< 0.130 UB	10.5	14.4	8.29	0.160	< 0.1 U	0.545	< 0.111 UB	14.9 J
Acenaphthylene	ug/kg	30.7	5.49	< 0.080 UB	9.09	12.0	4.18	0.111	4.18	0.244	0.093	14.6 J
Anthracene	ug/kg	38.0	6.97	4.25	11.6	16.7	< 0.1 U	0.158	3.72	0.178	0.140	11.4
Benzo(a)Anthracene	ug/kg	60.0	12.4	0.133 J	14.0 J	29.8 J	9.73	< 0.2 U	23.6	< 0.2 U	0.119 J	34.1
Benzo(a)Pyrene	ug/kg	90.9	16.0	< 0.101 UB	24.5	26.0	11.2	< 0.1 U	17.4	< 0.1 U	< 0.101 UB	28.9
Benzo(b)Fluoranthene	ug/kg	142	33.5	< 0.241 UB	42.2	48.2	22.6	0.342	42.0	1.31	< 0.324 UB	59.0
Benzo(g,h,i)Perylene	ug/kg	189	35.4	< 0.088 UB	47.0	44.9	19.5	0.149	36.4	0.278	< 0.147 UB	54.9
Benzo(j)+(k)Fluoranthene	ug/kg	41.4	10.8	< 0.098 UB	13.7	17.3	6.95	0.106	13.2	0.273	< 0.098 UB	14.6 J
Chrysene/Triphenylene	ug/kg	275	57.6	0.253	113	103	45.7	< 0.1 U	116	< 0.1 U	0.319	108
Dibenz(a,h)Anthracene	ug/kg	32.6	6.77	< 0.064 UB	9.13	10.1	5.04	< 0.1 U	8.17	0.437	0.985	10.8
Fluoranthene	ug/kg	126 J	35.2 J	0.642	47.4	53.3	24.6	2.06	50.3	1.78	0.663	64.1
Fluorene	ug/kg	179	33.4	1.91	57.1	82.5	46.6	2.57	13.4	6.67	2.22	83.2
Indeno[1,2,3-cd]pyrene	ug/kg	50.8	13.4	< 0.134 UB	14.0	18.3	8.13	< 0.1 U	14.5	0.488	< 0.367 UB	23.2
Naphthalene	ug/kg	44.6	10.4	< 1.33 UB	12.9	20.4	17.0	3.80	5.56	8.88	3.46	23.6 J
Phenanthrene	ug/kg	669	147	3.49	278	236	124	5.70	152	16.6	4.50	238
Pyrene	ug/kg	193	46.0	< 0.612 UB	76.8	73.9 J	42.7	0.810	77.5 J	1.02	< 0.399 UB	81.3 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	171	34.0	0.139 J	45.7	55.5	24.5	< 0.2 U	50.9	< 0.2 U	0.178	58.5
C1-Chrysenes	ug/kg	922	205	0.559	302	296	154	< 0.2 U	251	< 0.2 U	15.9	294
C1-Fluoranthenes/Pyrenes	ug/kg	1032	211	0.593	298	394	142	1.09	315	1.04	0.580	343
C1-Fluorenes	ug/kg	714	127	0.722	223	319	156	1.43	69.0	2.68	0.913	312
C1-Phenanthrenes/Anthracenes	ug/kg	2302	533	< 0.1 U	841	799	373	3.82	628	5.68	< 0.1 U	800
C2-Chrysenes	ug/kg	1336	245	0.568	451	375	185	< 0.2 U	346	< 0.2 U	2.59	445
C2-Fluorenes	ug/kg	2021	326	1.92	587	632	398	< 0.4 U	299	4.68	1.61	795
C2-Naphthalenes	ug/kg	2538	426	2.99	745	960	465	5.80	226	12.7	3.94	< 3.4 U
C2-Phenanthrenes/Anthracenes	ug/kg	4461	971	< 0.3 U	1304	1282	640	6.96	1105	6.77	< 0.3 U	1245
C3-Chrysenes	ug/kg	1095	209	0.429	306	307	138	< 0.2 U	224	< 0.2 U	0.811	303
C3-Fluorenes	ug/kg	2244	304	1.05	667	690	413	< 0.4 U	439	< 0.4 U	0.962	800
C3-Naphthalenes	ug/kg	4265	704	4.87	1124	1463	776	7.73	504	15.0	5.77	1541
C3-Phenanthrenes/Anthracenes	ug/kg	4853	1079	< 0.3 U	1411	1432	640	3.36	1454	2.62	< 0.3 U	1271
C4-Chrysenes	ug/kg	753	146	< 0.2 U	168	138	68.3	< 0.2 U	139	< 0.2 U	0.722	176

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	4045	631	2.77	1140	1530	672	4.15	671	13.6	1.68	1393
C4-Phenanthrenes/Anthracenes	ug/kg	3212	841	< 0.3 U	1072	997	462	< 0.3 U	853	2.17	< 0.3 U	961
Perylene	ug/kg	133	371	1.23 J	37.1	34.8	64.8	7.39 J	59.7	192	7.01	114
Phenanthrene, 2-methyl-	ug/kg	728 J	NA	NA	286 J	335	NA	NA	247	NA	NA	339
1,1-Biphenyl	ug/kg	80.5	NA	NA	25.0	33.6	NA	NA	7.73	NA	NA	33.5
18a-Oleanane	ug/kg	< 8.4 U	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	< 2.9 U
1-Methyldibenzothiophene(1MDT)	ug/kg	638	NA	NA	251	270	NA	NA	216	NA	NA	270
1-Methylfluorene	ug/kg	489	NA	NA	186	216	NA	NA	44.3	NA	NA	212
1-Methylphenanthrene	ug/kg	519	NA	NA	196	219	NA	NA	181	NA	NA	225
2,3,5-Trimethylnaphthalene	ug/kg	496	NA	NA	169	219	NA	NA	78.8	NA	NA	208
2/3-Methyldibenzothiophene(2MDT)	ug/kg	982	NA	NA	388	361	NA	NA	317	NA	NA	351
2-Methylanthracene	ug/kg	68.6	NA	NA	30.1	27.2	NA	NA	13.3	NA	NA	28.6
2-Methylfluoranthene	ug/kg	68.6	NA	NA	27.7	25.3	NA	NA	25.1	NA	NA	24.1 J
3,6-Dimethylphenanthrene	ug/kg	217	NA	NA	93.0	124	NA	NA	96.8	NA	NA	127
3-Methylphenanthrene (3MP)	ug/kg	677 J	NA	NA	228	239	NA	NA	202	NA	NA	232
4-Methyldibenzothiophene(4MDT)	ug/kg	1236	NA	NA	473	445	NA	NA	417	NA	NA	434
9/4-Methylphenanthrene (9MP)	ug/kg	1012	NA	NA	358	423	NA	NA	335	NA	NA	420
Benzo(a)Fluoranthene	ug/kg	20.1	NA	NA	< 0.5 U	< 0.5 U	NA	NA	< 0.1 U	NA	NA	< 0.5 U
Benzo(b)fluorene	ug/kg	90.9	NA	NA	33.1	37.4	NA	NA	12.1	NA	NA	39.5
Benzothiophene	ug/kg	14.1	NA	NA	1.81 J	3.06 J	NA	NA	1.04	NA	NA	3.26
C1-Benzo(b)thiophenes	ug/kg	128	NA	NA	25.2	35.8	NA	NA	9.24	NA	NA	43.5
C1-Decalins	ug/kg	< 3.9 U	NA	NA	5.62 J	10.8 J	NA	NA	2.58	NA	NA	7.16
C1-Dibenzothiophenes	ug/kg	2554	626	1.03	933	886	443	1.41	783	1.83	0.547	869
C1-Naphthalenes	ug/kg	549	96.5	1.38	159	207	110	3.51	30.1	7.87	2.82	196
C1-Naphthobenzothiophenes	ug/kg	1615	NA	NA	581	648	NA	NA	691	NA	NA	659
C20-TAS	ug/kg	96.9	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	42.8
C21-TAS	ug/kg	130	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	60.5
C26(20R)/C27(20S)-TAS	ug/kg	458	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	166
C26(20S)-TAS	ug/kg	153	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	50.4
C27(20R)-TAS	ug/kg	354	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	106
C28(20R)-TAS	ug/kg	365	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	128
C28(20S)-TAS	ug/kg	455	NA	NA	< 2.9 U	< 2.9 U	NA	NA	< 0.6 U	NA	NA	138
C29-Hopane	ug/kg	2538	NA	NA	745	966	NA	NA	810	NA	NA	910
C2-Benzo(b)thiophenes	ug/kg	519	NA	NA	138	188	NA	NA	44.6	NA	NA	169
C2-Decalins	ug/kg	< 3.9 U	NA	NA	39.0	45.3	NA	NA	11.2	NA	NA	32.0
C2-Dibenzothiophenes	ug/kg	5099	1152	1.79	1693	1649	700	2.39	1491	2.27	0.752	1598
C2-Fluoranthenes/Pyrenes	ug/kg	1704	419	0.612	463	462	< 0.5 U	< 0.5 U	421	< 0.5 U	0.436 J	530
C2-Naphthobenzothiophenes	ug/kg	2633	NA	NA	842	916	NA	NA	1002	NA	NA	1052
C30-Hopane	ug/kg	3607	NA	NA	1022	1177	NA	NA	1098	NA	NA	1135
C3-Benzo(b)thiophenes	ug/kg	1257	NA	NA	370	494	NA	NA	110	NA	NA	450
C3-Decalins	ug/kg	< 3.9 U	NA	NA	246	253	NA	NA	60.8	NA	NA	216
C3-Dibenzothiophenes	ug/kg	6541	1393	1.89	1985	1674	906	3.39	1144	2.54	0.631	1924
C3-Fluoranthenes/Pyrenes	ug/kg	1924	313	0.557	451	502	< 0.5 U	< 0.5 U	417	< 0.5 U	0.388 J	526
C3-Naphthobenzothiophenes	ug/kg	2202	NA	NA	734	719	NA	NA	681	NA	NA	871
C4-Benzo(b)thiophenes	ug/kg	1732	NA	NA	505	704	NA	NA	253	NA	NA	647
C4-Decalins	ug/kg	< 3.9 U	NA	NA	450	382	NA	NA	172	NA	NA	366
C4-Dibenzothiophenes	ug/kg	4873	1067	1.84	1376	1362	569	2.77	1156	1.55	0.502	1349
C4-Fluoranthenes/Pyrenes	ug/kg	2082	368	0.369 J	409	367	< 0.5 U	< 0.5 U	368	< 0.5 U	0.356 J	499
C4-Naphthobenzothiophenes	ug/kg	977	NA	NA	361	261	NA	NA	339	NA	NA	442
Carbazole	ug/kg	< 2.2 U	NA	NA	11.4 J	< 0.7 UJ	NA	NA	< 0.1 U	NA	NA	10.8
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	< 1.9 U	NA	NA	3.99	5.13	NA	NA	3.10	NA	NA	4.15
Dibenzofuran	ug/kg	72.7	NA	NA	22.5	32.2	NA	NA	11.4	NA	NA	33.3
Dibenzothiophene	ug/kg	562	165	0.435	272	260	140	0.608	170	1.34	0.427	291
Naphthalene, 2,6-dimethyl-	ug/kg	1042	NA	NA	325	409	NA	NA	93.5	NA	NA	369
Naphthobenzothiophene	ug/kg	499	NA	NA	210	272	NA	NA	257	NA	NA	277
Retene	ug/kg	241	NA	NA	116	97.3	NA	NA	103	NA	NA	94.2
TPH												
EOM (Extracted Organic Material)	mg/kg	15754	NA	NA	5469	7876	NA	NA	4196	NA	NA	7418
i-C15	mg/kg	4.689	NA	NA	1.209	1.089	NA	NA	0.118	NA	NA	0.909
i-C16	mg/kg	5.886	NA	NA	1.888	1.594	NA	NA	0.173	NA	NA	1.547
i-C18	mg/kg	4.463	NA	NA	1.795	1.572	NA	NA	0.270	NA	NA	1.755
n-C10 (n-Decane)	mg/kg	0.203	NA	NA	0.023	0.033	NA	NA	< 0.021 U	NA	NA	0.023
n-C11 (n-Undecane)	mg/kg	1.276	NA	NA	0.031	0.046	NA	NA	0.013 J	NA	NA	0.061
n-C12 (n-Dodecane)	mg/kg	3.489	NA	NA	0.044 J	0.152 J	NA	NA	0.016 J	NA	NA	0.179
n-C13 (n-Tridecane)	mg/kg	4.658	NA	NA	0.153 J	0.631 J	NA	NA	0.019 J	NA	NA	0.503
n-C14 (n-Tetradecane)	mg/kg	5.589	NA	NA	0.393 J	1.178 J	NA	NA	0.071	NA	NA	1.101
n-C15 (Pentadecane)	mg/kg	6.625	NA	NA	0.743 J	1.877 J	NA	NA	0.133	NA	NA	1.900 J

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	6.172	NA	NA	0.845 J	1.790 J	NA	NA	0.126	NA	NA	2.024 J
n-C17 (Heptadecane)	mg/kg	4.189	NA	NA	0.540 J	1.248 J	NA	NA	0.058	NA	NA	1.610 J
n-C18 (Octadecane)	mg/kg	4.405	NA	NA	0.896	1.468	NA	NA	0.578	NA	NA	2.181 J
n-C19 (Nonadecane)	mg/kg	4.856	NA	NA	1.043	1.558	NA	NA	0.342	NA	NA	2.356 J
n-C20 (Eicosane)	mg/kg	3.643	NA	NA	0.650 J	1.165 J	NA	NA	0.208	NA	NA	1.502 J
n-C21 (Heneicosane)	mg/kg	3.799	NA	NA	1.147	1.353	NA	NA	0.421	NA	NA	3.198
n-C22 (Docosane)	mg/kg	3.225	NA	NA	1.279	1.022	NA	NA	0.278	NA	NA	1.480 J
n-C23 (Tricosane)	mg/kg	3.717	NA	NA	1.344	1.492	NA	NA	0.773	NA	NA	3.770
n-C24 (Tetracosane)	mg/kg	2.773	NA	NA	0.501	0.774	NA	NA	0.237	NA	NA	1.176
n-C25 (Pentacosane)	mg/kg	2.784	NA	NA	1.021	1.210	NA	NA	0.810	NA	NA	2.950
n-C26 (Hexacosane)	mg/kg	1.978	NA	NA	0.510	0.614	NA	NA	0.252	NA	NA	0.791
n-C27 (Heptacosane)	mg/kg	3.533	NA	NA	2.635	2.450	NA	NA	2.832	NA	NA	4.027
n-C28 (Octacosane)	mg/kg	1.610	NA	NA	0.816	0.815	NA	NA	0.732	NA	NA	1.206
n-C29 (Nonacosane)	mg/kg	7.644	NA	NA	3.125 J	5.476 J	NA	NA	6.666	NA	NA	7.555
n-C30 (n-Triacontane)	mg/kg	1.367	NA	NA	0.946 J	0.394 J	NA	NA	0.797	NA	NA	1.038
n-C31 (Hentriacontane)	mg/kg	8.269	NA	NA	5.499	5.221	NA	NA	5.552	NA	NA	9.252
n-C32 (Dotriacontane)	mg/kg	1.810	NA	NA	1.963 J	0.628 J	NA	NA	0.943	NA	NA	1.300
n-C33	mg/kg	12.828	NA	NA	6.753	4.878	NA	NA	9.624	NA	NA	7.724
n-C34 (Tetratriacontane)	mg/kg	1.073	NA	NA	1.160 J	0.458 J	NA	NA	0.824	NA	NA	0.756
n-C35	mg/kg	6.429	NA	NA	5.161 J	1.979 J	NA	NA	5.724	NA	NA	3.293
n-C36 (Hexatriacontane)	mg/kg	0.541	NA	NA	0.612	0.385	NA	NA	0.335	NA	NA	0.426
n-C37	mg/kg	1.322	NA	NA	1.194	1.137	NA	NA	1.159	NA	NA	1.788
n-C38 (Octatriacontane)	mg/kg	0.212	NA	NA	0.557 J	0.119 J	NA	NA	0.122	NA	NA	0.279
n-C39 (Nonatriacontane)	mg/kg	0.489	NA	NA	0.282	0.240	NA	NA	0.193	NA	NA	0.539
n-C40 (Tetracontane)	mg/kg	0.300	NA	NA	0.156 J	< 0.019 UJ	NA	NA	< 0.019 U	NA	NA	0.075
n-C9 (Nonane)	mg/kg	< 0.036 U	NA	NA	< 0.012 U	< 0.012 U	NA	NA	< 0.012 U	NA	NA	< 0.012 U
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	6.873	NA	NA	2.265	2.449	NA	NA	0.802	NA	NA	2.827
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	6.707	NA	NA	2.217	2.143	NA	NA	0.652	NA	NA	2.508 J
Total Alkanes	mg/kg	139	NA	NA	51.4	50.6	NA	NA	41.9	NA	NA	75.6
Total Petroleum Hydrocarbons	mg/kg	6717	NA	NA	2385	2723	NA	NA	1807	NA	NA	2714
Total Resolveable Hydrocarbons	mg/kg	712	NA	NA	292	375	NA	NA	325	NA	NA	590
Unresolved Complex Mixture	mg/kg	6005	NA	NA	2093	2348	NA	NA	1482	NA	NA	2124
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,1,1-Trichloroethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,1,2,2-Tetrachloroethane	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,1,2-Trichloroethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,1,2-Trichlorotrifluoroethane	ug/kg	< 21 U	< 20 U	< 13 U	< 18 U	< 16 U	< 16 U	< 11 U	< 11 U	< 12 U	< 13 U	< 26 UJ
1,1-Dichloroethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,1-Dichloroethene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,1-Dichloropropene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2,3-Trichlorobenzene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2,3-Trichloropropane	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2,4-Trichlorobenzene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2,4-Trimethylbenzene	ug/kg	170	100	< 7 U	27	16	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	93 J
1,2-Dibromo-3-Chloropropane	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2-Dibromoethane (EDB)	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2-Dichlorobenzene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2-Dichloroethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,2-Dichloropropane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,3,5-Trimethylbenzene	ug/kg	100	64	< 7 U	16	10	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	66 J
1,3-Dichlorobenzene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,3-Dichloropropane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
1,4-Dichlorobenzene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
2,2-Dichloropropane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
2-Butanone (MEK)	ug/kg	29	25	< 13 U	< 18 U	< 16 U	< 16 U	< 11 U	< 11 U	< 12 U	< 13 U	25 J
2-Chlorotoluene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
2-Phenylbutane	ug/kg	32	19	< 7 U	5 J	3 J	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	15 J
4-Chlorotoluene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
4-Methyl-2-pentanone (MIBK)	ug/kg	< 21 U	< 20 U	< 13 U	< 18 U	< 16 U	< 16 U	< 11 U	< 11 U	< 12 U	< 13 U	< 26 UJ
Acetone	ug/kg	110	120	15 J	26 J	26 J	11 J	< 22 U	15 J	9 J	< 25 U	100 J
Allyl chloride	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Benzene	ug/kg	2 J	1 J	< 7 U	1 J	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	3 J
Bromobenzene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Bromochloromethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Bromodichloromethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Bromoform (Tribromomethane)	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Chemical	**Units**											
Bromomethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Carbon Tetrachloride	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Chlorobenzene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Chloroethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Chloroform	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Chloromethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
cis-1,2-Dichloroethene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
cis-1,3-Dichloropropene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Dibromochloromethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Dibromomethane	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Dichlorodifluoromethane (CFC-12)	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Dichlorofluoromethane	ug/kg	< 11 U	< 10 U	< 7 UJ	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Diethyl ether (Ethyl ether)	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 U
Ethylbenzene	ug/kg	17	12	< 7 U	25	15	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	16 J
Hexachloro-1,3-Butadiene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Isopropylbenzene (Cumene)	ug/kg	14	9 J	< 7 U	3 J	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	8 J
Methylene Chloride (Dichloromethane)	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Methyl-tert-butyl ether	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
n-Butylbenzene	ug/kg	44	25	< 7 U	6 J	4 J	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	17 J
n-Propylbenzene	ug/kg	33	20	< 7 U	6 J	4 J	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	18 J
p-Isopropyltoluene (Cymene)	ug/kg	41	24	< 7 U	6 J	4 J	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	26 J
Styrene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Tert-Butylbenzene	ug/kg	< 11 UJ	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Tetrachloroethene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Tetrahydrofuran	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Toluene	ug/kg	5 J	3 J	< 7 U	4 J	4 J	3 J	< 5 U	< 6 U	< 6 U	< 6 U	120 J
trans-1,2-Dichloroethene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
trans-1,3-Dichloropropene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Trichloroethene	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Trichlorofluoromethane (CFC-11)	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Vinyl Chloride	ug/kg	< 11 U	< 10 U	< 7 U	< 9 U	< 8 U	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	< 13 UJ
Xylene (Total)	ug/kg	110	61	< 7 U	23	13	< 8 U	< 5 U	< 6 U	< 6 U	< 6 U	81 J

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	100	NA	NA	99.9	NA	NA	NA	70.3	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	100	NA	NA	99.7	NA	NA	NA	70.1	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.8	NA	NA	99.6	NA	NA	NA	69.7	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	99.7	NA	NA	99.4	NA	NA	NA	69.6	NA
Sieve, 600 micron, % passing	% passing	NA	NA	99.5	NA	NA	98.8	NA	NA	NA	69.1	NA
Sieve, 300 micron, % passing	% passing	NA	NA	99.3	NA	NA	97.8	NA	NA	NA	68.3	NA
Sieve, 150 micron, % passing	% passing	NA	NA	99.1	NA	NA	96.2	NA	NA	NA	67.4	NA
Sieve, 75 micron, % passing	% passing	NA	NA	98.9	NA	NA	94.2	NA	NA	NA	66.4	NA
Sieve, 64 micron, % passing	% passing	NA	NA	98.5	NA	NA	94.0	NA	NA	NA	66.0	NA
Sieve, 50 micron, % passing	% passing	NA	NA	98.5	NA	NA	91.0	NA	NA	NA	65.0	NA
Sieve, 20 micron, % passing	% passing	NA	NA	95.0	NA	NA	81.0	NA	NA	NA	57.0	NA
Sieve, 5 micron, % passing	% passing	NA	NA	68.0	NA	NA	48.0	NA	NA	NA	33.0	NA
Sieve, 2 micron, % passing	% passing	NA	NA	38.0	NA	NA	37.0	NA	NA	NA	28.0	NA
Sieve, 1 micron, % passing	% passing	NA	NA	20.5	NA	NA	32.0	NA	NA	NA	29.0	NA
Metals												
Arsenic	mg/kg	8.38	4.23	9.40	13.0	4.31	4.60	5.90	2.67	4.41	13.9	7.47
Barium	mg/kg	241	96.9	214	186	134	132	164	69.8	61.8	236	259
Cadmium	mg/kg	< 1.03 U	< 0.639 U	< 1.19 U	< 0.959 U	< 0.662 U	0.345 J	0.370 J	0.207 J	0.263 J	0.804 J	0.485 J
Chromium	mg/kg	25.8 J	14.6 J	28.2 J	27.5 J	18.9 J	20.7 J	23.1 J	11.4 J	13.4 J	33.7 J	30.4 J
Lead	mg/kg	30.6	13.4	36.0	45.7	17.2	20.8	25.3	10.2	14.0	46.1	36.2
Mercury	mg/kg	0.0911 J	0.0311 J	0.0598 J	0.0693 J	0.0442 J	0.0304 J	0.0525 J	0.0276 J	0.0210 J	0.112 J	0.0861 J
Nickel	mg/kg	19.4	8.13	24.8	24.9	13.0	15.7	18.8	8.19	8.67	32.5	20.9
Selenium	mg/kg	< 4.13 U	< 2.55 U	< 4.75 U	< 3.84 U	< 2.65 U	< 3.14 U	< 4.38 U	< 2.48 U	< 2.47 U	< 6.21 U	< 5.55 U
Silver	mg/kg	< 1.03 U	< 0.639 U	< 1.19 U	< 0.959 U	< 0.662 U	< 0.785 U	< 1.10 U	< 0.619 U	< 0.618 U	< 1.55 U	< 1.39 U
Vanadium	mg/kg	45.4	27.1	42.8	42.6	32.6	33.5	40.0	20.1	25.0	52.7	61.2
Other												
Black Carbon	%	NA	NA	0.29 J	NA	NA	0.22 J	0.25 J	NA	NA	0.42 J	NA
Percent Moisture	%	53.0	24.0	58.3	48.9	27.4	36.9	56.1	20.8	20.7	68.4	64.3
Total Organic Carbon	%	NA	NA	8.23	NA	NA	4.8	5.3	NA	NA	13.03	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	7.87	2.05	91.2	16.8	3.21	8.51	13.3	0.391 J	< 0.546 UB	75.8	4.34
2-Methylnaphthalene	ug/kg	12.7	4.00	129	29.4	6.26	13.6	20.0	0.799 J	< 1.30 UB	102	7.50
Acenaphthene	ug/kg	1.36	0.35	8.96	2.04	0.636	2.06	1.88	0.165	< 0.103 UB	11.5 J	1.21
Acenaphthylene	ug/kg	0.96	0.12	12.7	2.83	0.252	3.16	3.15	0.106	< 0.041 UB	13.8 J	1.44
Anthracene	ug/kg	1.48	< 0.1 U	12.2	4.56	17.6	3.89	3.89	0.214	< 0.115 UB	19.0	2.37
Benzo(a)Anthracene	ug/kg	2.71	< 0.2 U	18.0	6.52	0.397	3.93	3.14	0.228	0.079 J	13.8 J	3.63
Benzo(a)Pyrene	ug/kg	1.59	< 0.1 U	29.0	4.69	< 0.1 U	5.05	3.91	0.120	< 0.101 UB	20.1	2.62
Benzo(b)Fluoranthene	ug/kg	7.55	0.37	83.2	32.0	1.46	23.7	22.5	0.747	< 0.203 UB	64.5	14.0
Benzo(g,h,i)Perylene	ug/kg	3.14	0.22	34.2	17.0	0.388	13.1	13.4	< 0.172 UB	< 0.088 UB	54.6	3.74
Benzo(j)+(k)Fluoranthene	ug/kg	1.64	0.06 J	26.7	9.09	0.293	7.04 J	4.18 J	< 0.190 UB	< 0.098 UB	28.0	3.78
Chrysene/Triphenylene	ug/kg	9.21	< 0.1 U	68.0	26.7	1.14	11.7	11.2	0.494	0.121	35.9	10.4
Dibenz(a,h)Anthracene	ug/kg	1.26	< 0.1 U	8.27	3.43	0.169	3.22	2.84	< 0.064 UB	< 0.064 UB	8.44	2.60
Fluoranthene	ug/kg	7.17	0.93	59.2	19.0	2.56	12.6	12.5	1.14	0.631	47.6	8.81
Fluorene	ug/kg	7.65	4.07	41.6	12.0	6.27	6.87	8.71	1.55	1.81	40.8 J	6.46
Indeno[1,2,3-cd]pyrene	ug/kg	3.09	< 0.1 U	25.3	13.5	0.645	12.2	11.6	< 0.260 UB	< 0.062 UB	36.9	4.91
Naphthalene	ug/kg	13.1	4.75	28.0	19.9	7.04	5.52	8.59	< 1.02 UB	< 0.600 UB	26.7	6.00
Phenanthrene	ug/kg	21.9	< 0.2 U	114	31.7	16.7	15.6	17.5	3.19	4.70	88.1	12.9
Pyrene	ug/kg	5.24	0.47 J	72.2	15.7	1.82	8.87	9.74	< 0.688 UB	< 0.314 UB	41.5	6.17
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	3.34	< 0.2 U	46.4	18.2	< 0.2 U	12.9	12.0	0.282	< 0.177 UB	39.8	5.45
C1-Chrysenes	ug/kg	33.1	< 0.2 U	176	105	< 0.2 U	32.9	28.9	0.181 J	0.094 J	111	35.6
C1-Fluoranthenes/Pyrenes	ug/kg	8.62	0.37 J	161	25.6	1.18	11.6	13.0	0.533	0.161 J	70.7	7.09
C1-Fluorenes	ug/kg	4.17	1.64	133	13.2	2.49	13.1	13.0	0.644	0.704	84.0	3.60
C1-Phenanthrenes/Anthracenes	ug/kg	20.5	< 0.1 U	323	38.2	5.59	22.9	22.7	< 0.1 U	< 0.1 U	141	13.9
C2-Chrysenes	ug/kg	15.8	< 0.2 U	215	63.6	< 0.2 U	22.8	19.2	0.663	0.283	86.2	17.2
C2-Fluorenes	ug/kg	14.5	< 0.4 U	381	48.1	4.68	22.4	28.7	1.03	2.044	156	11.4
C2-Naphthalenes	ug/kg	20.5	6.25	468	55.0	9.04	46.3	53.8	1.48	< 0.723 UB	367	13.7
C2-Phenanthrenes/Anthracenes	ug/kg	26.7	< 0.3 U	556	65.7	< 0.3 U	32.9	33.9	< 0.3 U	< 0.3 U	208	14.6
C3-Chrysenes	ug/kg	12.2	< 0.2 U	161	56.3	< 0.2 U	17.8	13.9	0.499	0.850	55.0	7.63
C3-Fluorenes	ug/kg	21.4	< 0.4 U	444	32.5	< 0.4 U	31.2	31.8	0.675	0.913	199	9.34
C3-Naphthalenes	ug/kg	26.0	9.10	728	57.0	9.46	56.5	59.3	3.94	< 0.740 UB	357	13.4
C3-Phenanthrenes/Anthracenes	ug/kg	18.0	< 0.3 U	737	74.1	< 0.3 U	27.4	29.9	< 0.3 U	< 0.3 U	250	14.2
C4-Chrysenes	ug/kg	8.00	< 0.2 U	121	31.2	< 0.2 U	8.56	9.39	< 0.2 U	< 0.2 U	55.5	5.87

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	10.5	3.22	684	37.5	9.01	40.0	36.2	2.07	1.30	284	4.63
C4-Phenanthrenes/Anthracenes	ug/kg	8.80	< 0.3 U	497	61.8	< 0.3 U	17.2	21.2	< 0.3 U	< 0.3 U	170	9.63
Perylene	ug/kg	< 1.3 U	238	36.5	83.0 J	141	140	157	61.7	5.27	103	378
Phenanthrene, 2-methyl-	ug/kg	NA	NA	101 J	NA	NA	9.41	8.63	NA	NA	57.6	NA
1,1-Biphenyl	ug/kg	NA	NA	23.5	NA	NA	3.82	4.48	NA	NA	21.1 J	NA
18a-Oleanane	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	128	NA	NA	6.29	6.20	NA	NA	51.1	NA
1-Methylfluorene	ug/kg	NA	NA	91.4	NA	NA	7.56	7.48	NA	NA	55.0	NA
1-Methylphenanthrene	ug/kg	NA	NA	99.0	NA	NA	5.03	6.26	NA	NA	39.8	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	97.1	NA	NA	6.53	6.49	NA	NA	46.7	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	148	NA	NA	9.32	8.18	NA	NA	66.4	NA
2-Methylanthracene	ug/kg	NA	NA	8.15	NA	NA	4.64	5.19	NA	NA	8.23	NA
2-Methylfluoranthene	ug/kg	NA	NA	15.5	NA	NA	1.49	1.41	NA	NA	5.89	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	69.1	NA	NA	2.71 J	1.48 J	NA	NA	19.9 J	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	92.0	NA	NA	6.48	6.78	NA	NA	44.1	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	215	NA	NA	10.9	10.5	NA	NA	79.6	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	122	NA	NA	9.53	7.99	NA	NA	66.1	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	9.81	NA	NA	4.80	4.33	NA	NA	21.0	NA
Benzo(b)fluorene	ug/kg	NA	NA	15.6	NA	NA	1.87	1.77	NA	NA	9.89	NA
Benzothiophene	ug/kg	NA	NA	3.11	NA	NA	0.54	0.634	NA	NA	2.94	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	35.5	NA	NA	2.55 J	< 0.2 UJ	NA	NA	48.2	NA
C1-Decalins	ug/kg	NA	NA	11.8	NA	NA	< 0.3 U	< 0.3 U	NA	NA	11.9	NA
C1-Dibenzothiophenes	ug/kg	7.70	< 0.1 U	413	31.6	1.15	20.8	19.6	0.259	0.139	155	4.91
C1-Naphthalenes	ug/kg	13.3	3.99	143	30.0	6.17	14.9	22.3	0.766 J	< 1.03 UB	119	7.62
C1-Naphthobenzothiophenes	ug/kg	NA	NA	241	NA	NA	29.8	26.4	NA	NA	86.4	NA
C20-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C21-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C26(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C27(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C28(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C28(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C29-Hopane	ug/kg	NA	NA	541	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	94.6	NA	NA	9.89 J	< 0.2 UJ	NA	NA	80.0	NA
C2-Decalins	ug/kg	NA	NA	38.6	NA	NA	< 0.3 U	< 0.3 U	NA	NA	< 1.3 U	NA
C2-Dibenzothiophenes	ug/kg	15.6	0.67	672	60.1	1.30	34.0	31.3	0.458	0.181 J	240	9.40
C2-Fluoranthenes/Pyrenes	ug/kg	11.5	< 0.5 U	222	41.6	< 0.5 U	18.1	16.9	0.343 J	0.216 J	125	10.7
C2-Naphthobenzothiophenes	ug/kg	NA	NA	415	NA	NA	47.5	32.7	NA	NA	155	NA
C30-Hopane	ug/kg	NA	NA	636	NA	NA	< 0.6 U	< 0.6 U	NA	NA	< 2.9 U	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	212	NA	NA	16.4 J	< 0.2 UJ	NA	NA	129	NA
C3-Decalins	ug/kg	NA	NA	228	NA	NA	< 0.3 U	< 0.3 U	NA	NA	< 1.3 U	NA
C3-Dibenzothiophenes	ug/kg	14.1	0.72	1010	97	1.28	39.7	38.5	0.480	0.185 J	260	13.9
C3-Fluoranthenes/Pyrenes	ug/kg	10.7	< 0.5 U	165	42.0	< 0.5 U	17.1 J	7.83 J	0.319 J	0.087 J	84.9	8.49
C3-Naphthobenzothiophenes	ug/kg	NA	NA	352	NA	NA	37.6	26.3	NA	NA	136	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	290	NA	NA	15.5 J	< 0.2 UJ	NA	NA	125	NA
C4-Decalins	ug/kg	NA	NA	337	NA	NA	< 0.3 U	< 0.3 U	NA	NA	< 1.3 U	NA
C4-Dibenzothiophenes	ug/kg	10.3	< 0.2 U	623	91.2	< 0.2 U	30.5	26.4	0.370	0.130 J	201	14.8
C4-Fluoranthenes/Pyrenes	ug/kg	7.37	< 0.5 U	215	58.1	< 0.5 U	19.7	21.4	0.203 J	< 0.5 U	92.0	9.83
C4-Naphthobenzothiophenes	ug/kg	NA	NA	187	NA	NA	17.3 J	7.49 J	NA	NA	50.2	NA
Carbazole	ug/kg	NA	NA	13.8	NA	NA	2.90	3.40	NA	NA	11.6 J	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	12.1	NA	NA	< 0.1 U	< 0.1 U	NA	NA	17.1 J	NA
Dibenzofuran	ug/kg	NA	NA	22.2	NA	NA	4.24	5.73	NA	NA	23.2 J	NA
Dibenzothiophene	ug/kg	3.05	< 0.1 U	127	14.1	1.09	10.1	10.0	0.276	0.165	71.3	3.08
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	206	NA	NA	18.4	21.2	NA	NA	141	NA
Naphthobenzothiophene	ug/kg	NA	NA	105	NA	NA	8.23	6.81	NA	NA	37.6	NA
Retene	ug/kg	NA	NA	110	NA	NA	2.55	2.89	NA	NA	17.3 J	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	4111	NA	NA	1045	1128	NA	NA	5645	NA
i-C15	mg/kg	NA	NA	0.485	NA	NA	< 0.016 U	0.008 J	NA	NA	0.088	NA
i-C16	mg/kg	NA	NA	0.702	NA	NA	< 0.004 UJ	0.053 J	NA	NA	0.303	NA
i-C18	mg/kg	NA	NA	0.811	NA	NA	< 0.004 U	0.014	NA	NA	0.345	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.028	NA	NA	0.007 J	0.008 J	NA	NA	0.038	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.051	NA	NA	0.023	0.019	NA	NA	0.257	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.074	NA	NA	0.017 J	0.026	NA	NA	0.126	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.094	NA	NA	0.013 J	0.018 J	NA	NA	0.127	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.209	NA	NA	0.026	0.040	NA	NA	0.250	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.303	NA	NA	0.035	0.110	NA	NA	0.275	NA

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.292	NA	NA	0.030	0.054	NA	NA	0.385	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.338	NA	NA	0.060	0.068	NA	NA	0.620	NA
n-C18 (Octadecane)	mg/kg	NA	NA	1.004	NA	NA	0.282	0.369	NA	NA	1.963	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.700	NA	NA	0.180	0.276	NA	NA	1.459 J	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.360	NA	NA	0.037 J	0.075 J	NA	NA	0.308	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	2.433	NA	NA	0.498	0.304	NA	NA	5.955	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.683	NA	NA	0.091	0.079	NA	NA	0.676	NA
n-C23 (Tricosane)	mg/kg	NA	NA	1.615	NA	NA	0.530	0.438	NA	NA	6.898	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.457	NA	NA	0.155	0.135	NA	NA	1.127	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	2.267	NA	NA	0.915	0.832	NA	NA	7.331	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.615	NA	NA	0.222	0.185	NA	NA	0.931	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	1.988	NA	NA	1.435	1.112	NA	NA	7.887	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.764	NA	NA	0.397	0.307	NA	NA	1.424	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	5.602	NA	NA	4.753	3.023	NA	NA	13.425	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.791	NA	NA	0.370	0.450	NA	NA	1.132	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	8.375	NA	NA	3.388	2.504	NA	NA	14.529	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.699	NA	NA	0.153 J	0.284 J	NA	NA	0.637	NA
n-C33	mg/kg	NA	NA	18.682	NA	NA	1.507	1.765	NA	NA	28.571	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	1.852	NA	NA	0.259	0.117	NA	NA	1.381 J	NA
n-C35	mg/kg	NA	NA	10.475	NA	NA	1.076	1.057	NA	NA	18.048	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.392	NA	NA	0.025 J	0.166 J	NA	NA	0.431	NA
n-C37	mg/kg	NA	NA	1.085	NA	NA	0.142	0.157	NA	NA	1.274	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.322	NA	NA	0.071	0.102	NA	NA	0.348	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.354	NA	NA	0.070	0.081	NA	NA	0.727	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	0.128	NA	NA	0.053	0.081	NA	NA	0.189	NA
n-C9 (Nonane)	mg/kg	NA	NA	< 0.012 U	NA	NA	< 0.012 U	< 0.012 U	NA	NA	< 0.012 U	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	1.248	NA	NA	0.083	0.077	NA	NA	0.889	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	1.038	NA	NA	0.033	0.039	NA	NA	0.499	NA
Total Alkanes	mg/kg	NA	NA	67.3	NA	NA	16.9	14.4	NA	NA	120.9	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	1480	NA	NA	300	360	NA	NA	1983	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	461	NA	NA	166	161	NA	NA	974	NA
Unresolved Complex Mixture	mg/kg	NA	NA	1019	NA	NA	134	200	NA	NA	1008	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,1,1-Trichloroethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,1,2,2-Tetrachloroethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,1,2-Trichloroethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 25 U	< 13 U	< 29 U	< 23 U	< 14 U	< 16 U	< 21 U	< 11 U	< 13 U	< 39 UJ	< 40 U
1,1-Dichloroethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
1,1-Dichloroethene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,1-Dichloropropene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2,3-Trichlorobenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2,3-Trichloropropane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2,4-Trichlorobenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2,4-Trimethylbenzene	ug/kg	< 12 U	< 6 U	5 J	7 J	< 7 U	4 J	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2-Dibromoethane (EDB)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2-Dichlorobenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,2-Dichloroethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
1,2-Dichloropropane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
1,3,5-Trimethylbenzene	ug/kg	< 12 U	< 6 U	4 J	5 J	< 7 U	3 J	< 11 U	< 5 U	< 6 U	6 J	< 20 U
1,3-Dichlorobenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,3-Dichloropropane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
1,4-Dichlorobenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
2,2-Dichloropropane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
2-Butanone (MEK)	ug/kg	15 J	< 13 U	20 J	< 23 U	< 14 U	8 J	< 21 U	< 11 U	< 13 U	40 J	32 J
2-Chlorotoluene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
2-Phenylbutane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
4-Chlorotoluene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 25 U	< 13 U	< 29 U	< 23 U	< 14 U	< 16 U	< 21 U	< 11 U	< 13 U	< 39 U	< 40 U
Acetone	ug/kg	75	< 25 U	110	39 J	< 27 U	41	27 J	< 22 U	< 25 U	200 J	200
Allyl chloride	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Benzene	ug/kg	1 J	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Bromobenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Bromochloromethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Bromodichloromethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Bromoform (Tribromomethane)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Chemical	**Units**											
Bromomethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Carbon Tetrachloride	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Chlorobenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Chloroethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Chloroform	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Chloromethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
cis-1,2-Dichloroethene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
cis-1,3-Dichloropropene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Dibromochloromethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Dibromomethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Dichlorofluoromethane	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Diethyl ether (Ethyl ether)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Ethylbenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Hexachloro-1,3-Butadiene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Isopropylbenzene (Cumene)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Methylene Chloride (Dichloromethane)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Methyl-tert-butyl ether	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
n-Butylbenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
n-Propylbenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
p-Isopropyltoluene (Cymene)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Styrene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Tert-Butylbenzene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Tetrachloroethene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Tetrahydrofuran	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Toluene	ug/kg	< 12 U	< 6 U	16	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	6 J	< 20 U
trans-1,2-Dichloroethene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
trans-1,3-Dichloropropene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Trichloroethene	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 UJ	< 20 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Vinyl Chloride	ug/kg	< 12 U	< 6 U	< 15 U	< 12 U	< 7 U	< 8 U	< 11 U	< 5 U	< 6 U	< 19 U	< 20 U
Xylene (Total)	ug/kg	5 J	< 6 U	16	8 J	< 7 U	5 J	< 11 U	< 5 U	< 6 U	22 J	< 20 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
Chemical	**Units**									
Grain Size										
Sieve 3 inch, % passing	% passing	NA	100	NA	NA	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	100	NA	NA	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	100	NA	NA	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	100	NA	NA	NA	NA	99.7	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	99.8	NA	NA	NA	NA	99.4	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	99.5	NA	NA	NA	NA	99.2	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	95.5	NA	NA	NA	NA	99.0	NA	NA
Sieve, 600 micron, % passing	% passing	NA	90.6	NA	NA	NA	NA	98.8	NA	NA
Sieve, 300 micron, % passing	% passing	NA	86.9	NA	NA	NA	NA	98.8	NA	NA
Sieve, 150 micron, % passing	% passing	NA	84.4	NA	NA	NA	NA	98.4	NA	NA
Sieve, 75 micron, % passing	% passing	NA	82.3	NA	NA	NA	NA	96.2	NA	NA
Sieve, 64 micron, % passing	% passing	NA	82.5	NA	NA	NA	NA	92.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	84.0	NA	NA	NA	NA	84.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	83.0	NA	NA	NA	NA	57.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	62.0	NA	NA	NA	NA	23.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	39.0	NA	NA	NA	NA	13.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	21.0	NA	NA	NA	NA	8.0	NA	NA
Metals										
Arsenic	mg/kg	3.95	13.9	5.27	4.68	3.85	3.10	6.42	4.34 J	2.90
Barium	mg/kg	178	197	135	114	83.7	75.9	193	197	83.1
Cadmium	mg/kg	0.331 J	< 1.41 U	< 0.672 U	< 0.668 U	0.218 J	0.205 J	0.527 J	0.397 J	0.214 J
Chromium	mg/kg	23.9 J	27.1	17.8	14.1	14.5 J	17.5 J	26.0 J	22.4 J	12.0 J
Lead	mg/kg	23.0	38.1	17.7	14.0	13.0	11.8	36.9	26.1	11.3
Mercury	mg/kg	0.0418 J	0.0679 J	0.0401 J	0.0503 J	0.0533 J	0.0311 J	0.0709 J	0.0680 J	0.0386 J
Nickel	mg/kg	13.0	25.5	12.3	10.0	9.86	12.3	21.1	19.5	9.65
Selenium	mg/kg	1.33 J	< 5.65 U	< 2.69 U	< 2.67 U	< 2.51 U	< 2.64 U	< 4.58 U	< 4.38 U	< 2.52 U
Silver	mg/kg	< 0.741 U	< 1.41 U	< 0.672 U	< 0.668 U	< 0.627 U	< 0.660 U	< 1.14 U	< 1.10 U	< 0.629 U
Vanadium	mg/kg	49.2	42.3	29.7	25.4	25.6	28.7	41.9	38.2	20.5
Other										
Black Carbon	%	NA	0.35 J	NA	NA	NA	NA	0.23 J	NA	NA
Percent Moisture	%	33.2	65.3	27.0	25.1	23.3	26.5	58.0	55.7	22.1
Total Organic Carbon	%	NA	8.54	NA	NA	NA	NA	5.18	NA	NA
Priority PAHs										
1-Methylnaphthalene	ug/kg	0.758	65.7	3.84	2.23	NA	NA	5.41	2.78	0.692
2-Methylnaphthalene	ug/kg	1.45	90.8	7.78	4.00	NA	NA	10.4	5.49	1.45
Acenaphthene	ug/kg	0.451	7.31	1.07	0.12	NA	NA	1.48	1.01	0.275
Acenaphthylene	ug/kg	0.235	14.4	0.798	0.61	NA	NA	2.35	0.939	< 0.079 UB
Anthracene	ug/kg	0.351	19.2	0.959	0.583	NA	NA	3.05	1.40	< 0.115 UB
Benzo(a)Anthracene	ug/kg	0.652	19.2	1.48	0.569	NA	NA	3.44	2.49	0.136 J
Benzo(a)Pyrene	ug/kg	0.453	24.8	1.94	< 0.1 U	NA	NA	3.97	1.49	< 0.101 UB
Benzo(b)Fluoranthene	ug/kg	2.52	90.3	7.65	< 0.2 U	NA	NA	20.0	11.3	< 0.203 UB
Benzo(g,h,i)Perylene	ug/kg	< 0.402 UB	81.1	5.33	< 0.1 U	NA	NA	13.4	2.30	< 0.088 UB
Benzo(j)+(k)Fluoranthene	ug/kg	0.448	23.0	1.44	< 0.1 U	NA	NA	4.04	1.53	< 0.098 UB
Chrysene/Triphenylene	ug/kg	2.03	61.8	3.71	1.07	NA	NA	14.3	8.94	0.119
Dibenz(a,h)Anthracene	ug/kg	< 0.229 UB	12.5	2.33	< 0.1 U	NA	NA	3.32	1.46	< 0.064 UB
Fluoranthene	ug/kg	1.99	57.8 J	6.38 J	3.32 J	NA	NA	12.3	8.46	0.787
Fluorene	ug/kg	2.72	31.6	8.93	7.41	NA	NA	8.54	8.06	3.36
Indeno[1,2,3-cd]pyrene	ug/kg	0.621	45.3	3.35	< 0.1 U	NA	NA	11.0	3.14	< 0.102 UB
Naphthalene	ug/kg	2.06	20.6	7.53	4.13	NA	NA	9.76	6.41	1.79
Phenanthrene	ug/kg	5.16	79.7	18.0	14.0	NA	NA	19.2	17.4	6.56
Pyrene	ug/kg	1.52	58.2	3.75	1.41	NA	NA	9.10	4.63	< 0.392 UB
Forensic PAHs										
Benzo(e)Pyrene	ug/kg	0.847	57.3	3.39	< 0.2 U	NA	NA	12.3	3.33	0.160 J
C1-Chrysenes	ug/kg	11.5	141	< 0.2 U	< 0.2 U	NA	NA	72.1	2.73	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	2.92	113	5.79	2.67	NA	NA	17.1	5.26	< 0.5 U
C1-Fluorenes	ug/kg	1.22	76.2	4.89	3.43	NA	NA	7.58	4.56	< 0.4 U
C1-Phenanthrenes/Anthracenes	ug/kg	< 0.1 U	199	10.8	7.18	NA	NA	19.1	11.8	< 0.1 U
C2-Chrysenes	ug/kg	2.23	153	< 0.2 U	< 0.2 U	NA	NA	46.2	6.79	< 0.2 U
C2-Fluorenes	ug/kg	1.73	222	11.6	< 0.4 U	NA	NA	27.1	7.44	< 0.4 U
C2-Naphthalenes	ug/kg	2.49	290	15.1	11.7	NA	NA	20.5	9.66	2.97
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	376	15.0	8.25	NA	NA	32.4	8.19	< 0.3 U
C3-Chrysenes	ug/kg	1.56	136	< 0.2 U	< 0.2 U	NA	NA	37.1	2.81	< 0.2 U
C3-Fluorenes	ug/kg	0.921	283	< 0.4 U	< 0.4 U	NA	NA	17.9	4.09	< 0.4 U
C3-Naphthalenes	ug/kg	6.07	398	20.5	21.1	NA	NA	24.3	12.3	8.53
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	425	13.4	5.31	NA	NA	37.8	4.14	< 0.3 U
C4-Chrysenes	ug/kg	1.12	99.9	< 0.2 U	< 0.2 U	NA	NA	15.4	2.22	< 0.2 U

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
Chemical	**Units**									
C4-Naphthalenes	ug/kg	1.03	345	25.9	54.1	NA	NA	16.6	10.3	4.29
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	352	13.8	5.15	NA	NA	34.7	< 0.3 U	< 0.3 U
Perylene	ug/kg	348	112	157	52.8	NA	NA	378	310	15.8
Phenanthrene, 2-methyl-	ug/kg	NA	61.2 J	NA	NA	NA	NA	8.41	NA	NA
1,1-Biphenyl	ug/kg	NA	16.0	NA	NA	NA	NA	6.46	NA	NA
18a-Oleanane	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	67.1	NA	NA	NA	NA	2.92	NA	NA
1-Methylfluorene	ug/kg	NA	56.6	NA	NA	NA	NA	3.42	NA	NA
1-Methylphenanthrene	ug/kg	NA	57.0	NA	NA	NA	NA	4.03	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	49.2	NA	NA	NA	NA	2.43	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	81.5	NA	NA	NA	NA	5.70	NA	NA
2-Methylanthracene	ug/kg	NA	12.7	NA	NA	NA	NA	5.38	NA	NA
2-Methylfluoranthene	ug/kg	NA	10.6	NA	NA	NA	NA	1.92	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	26.0	NA	NA	NA	NA	2.60	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	58.5 J	NA	NA	NA	NA	5.74	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	113	NA	NA	NA	NA	5.98	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	70.4	NA	NA	NA	NA	5.80	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	15.9	NA	NA	NA	NA	< 0.1 U	NA	NA
Benzo(b)fluorene	ug/kg	NA	12.4	NA	NA	NA	NA	2.16	NA	NA
Benzothiophene	ug/kg	NA	2.14	NA	NA	NA	NA	1.19	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	47.6	NA	NA	NA	NA	< 0.2 U	NA	NA
C1-Decalins	ug/kg	NA	< 1.3 U	NA	NA	NA	NA	< 0.3 U	NA	NA
C1-Dibenzothiophenes	ug/kg	0.536	234	4.31	1.29	NA	NA	11.5	2.30	0.231
C1-Naphthalenes	ug/kg	1.42	99.6	7.45	3.99	NA	NA	10.7	5.33	1.38
C1-Naphthobenzothiophenes	ug/kg	NA	187	NA	NA	NA	NA	43.4	NA	NA
C20-TAS	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C21-TAS	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C26(20S)-TAS	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C27(20R)-TAS	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C28(20R)-TAS	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C28(20S)-TAS	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C29-Hopane	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	53.2	NA	NA	NA	NA	< 0.2 U	NA	NA
C2-Decalins	ug/kg	NA	< 1.3 U	NA	NA	NA	NA	< 0.3 U	NA	NA
C2-Dibenzothiophenes	ug/kg	0.410	399	7.05	3.20	NA	NA	25.2	3.13	0.315
C2-Fluoranthenes/Pyrenes	ug/kg	1.25	210	< 0.5 U	< 0.5 U	NA	NA	30.8	4.39	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	326	NA	NA	NA	NA	87.9	NA	NA
C30-Hopane	ug/kg	NA	< 2.9 U	NA	NA	NA	NA	< 0.6 U	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	136	NA	NA	NA	NA	< 0.2 U	NA	NA
C3-Decalins	ug/kg	NA	< 1.3 U	NA	NA	NA	NA	< 0.3 U	NA	NA
C3-Dibenzothiophenes	ug/kg	0.330	512	12.6	5.16	NA	NA	51.8	3.29	0.179 J
C3-Fluoranthenes/Pyrenes	ug/kg	1.05	161	< 0.5 U	< 0.5 U	NA	NA	28.9	2.70	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	281	NA	NA	NA	NA	95.3	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	148	NA	NA	NA	NA	< 0.2 U	NA	NA
C4-Decalins	ug/kg	NA	< 1.3 U	NA	NA	NA	NA	< 0.3 U	NA	NA
C4-Dibenzothiophenes	ug/kg	0.264	418	10.6	5.20	NA	NA	46.8	3.57	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	224	< 0.5 U	< 0.5 U	NA	NA	42.1	1.20	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	136	NA	NA	NA	NA	29.7	NA	NA
Carbazole	ug/kg	NA	11.7	NA	NA	NA	NA	2.82	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	15.9	NA	NA	NA	NA	5.57	NA	NA
Dibenzofuran	ug/kg	NA	16.8	NA	NA	NA	NA	6.20	NA	NA
Dibenzothiophene	ug/kg	0.627	68.8	2.46	2.14	NA	NA	5.92	1.98	0.313
Naphthalene, 2,6-dimethyl-	ug/kg	NA	120	NA	NA	NA	NA	8.75	NA	NA
Naphthobenzothiophene	ug/kg	NA	62.7	NA	NA	NA	NA	12.7	NA	NA
Retene	ug/kg	NA	28.5	NA	NA	NA	NA	1.75	NA	NA
TPH										
EOM (Extracted Organic Material)	mg/kg	NA	4661	NA	NA	NA	NA	1403	NA	NA
i-C15	mg/kg	NA	0.223	NA	NA	NA	NA	0.012 J	NA	NA
i-C16	mg/kg	NA	0.346	NA	NA	NA	NA	0.055	NA	NA
i-C18	mg/kg	NA	0.264	NA	NA	NA	NA	0.019	NA	NA
n-C10 (n-Decane)	mg/kg	NA	0.013 J	NA	NA	NA	NA	0.008 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	0.042	NA	NA	NA	NA	0.012 J	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.108	NA	NA	NA	NA	0.029	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.128	NA	NA	NA	NA	0.020 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.192	NA	NA	NA	NA	0.042	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.533	NA	NA	NA	NA	0.054	NA	NA

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
Chemical	**Units**									
n-C16 (n-Hexadecane)	mg/kg	NA	0.245	NA	NA	NA	NA	0.053	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.661	NA	NA	NA	NA	0.067	NA	NA
n-C18 (Octadecane)	mg/kg	NA	1.078	NA	NA	NA	NA	1.544	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.905	NA	NA	NA	NA	0.368	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.308	NA	NA	NA	NA	0.054	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	3.676	NA	NA	NA	NA	0.812	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.496	NA	NA	NA	NA	0.128	NA	NA
n-C23 (Tricosane)	mg/kg	NA	3.413	NA	NA	NA	NA	0.805	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.551	NA	NA	NA	NA	0.178	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	2.847	NA	NA	NA	NA	0.792	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	0.386	NA	NA	NA	NA	0.213	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	3.715	NA	NA	NA	NA	1.303	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.893	NA	NA	NA	NA	0.446	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	6.984	NA	NA	NA	NA	4.621	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	1.124	NA	NA	NA	NA	0.448	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	10.266	NA	NA	NA	NA	6.039	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	2.354	NA	NA	NA	NA	0.295	NA	NA
n-C33	mg/kg	NA	23.020	NA	NA	NA	NA	2.348	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	0.695	NA	NA	NA	NA	0.417	NA	NA
n-C35	mg/kg	NA	11.573	NA	NA	NA	NA	2.038	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	0.425	NA	NA	NA	NA	0.260	NA	NA
n-C37	mg/kg	NA	0.972	NA	NA	NA	NA	0.255	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	0.314	NA	NA	NA	NA	0.085	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	0.633	NA	NA	NA	NA	0.232	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	0.034	NA	NA	NA	NA	0.026	NA	NA
n-C9 (Nonane)	mg/kg	NA	< 0.012 U	NA	NA	NA	NA	< 0.012 U	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	0.992	NA	NA	NA	NA	0.086	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	0.573	NA	NA	NA	NA	0.040	NA	NA
Total Alkanes	mg/kg	NA	81.0	NA	NA	NA	NA	24.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	1612	NA	NA	NA	NA	479	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	576	NA	NA	NA	NA	197	NA	NA
Unresolved Complex Mixture	mg/kg	NA	1037	NA	NA	NA	NA	282	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 15 U	< 31 U	< 12 U	< 12 U	< 14 U	< 14 U	< 26 U	< 18 U	< 12 U
1,1-Dichloroethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,1-Dichloroethene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,1-Dichloropropene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,2-Dichloroethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,2-Dichloropropane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 8 U	13 J	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
1,3-Dichloropropane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
2,2-Dichloropropane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
2-Butanone (MEK)	ug/kg	< 15 U	33	< 12 U	< 12 U	< 14 U	< 14 U	12 J	< 18 U	< 12 U
2-Chlorotoluene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
2-Phenylbutane	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
4-Chlorotoluene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 15 U	< 31 U	< 12 U	< 12 U	< 14 U	< 14 U	< 26 U	< 18 U	< 12 U
Acetone	ug/kg	12 J	200	13 J	11 J	< 27 U	< 29 U	67	18 J	< 25 U
Allyl chloride	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Benzene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Bromobenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
Bromochloromethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Bromodichloromethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
Chemical	**Units**									
Bromomethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Carbon Tetrachloride	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Chlorobenzene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Chloroethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Chloroform	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Chloromethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Dibromochloromethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Dibromomethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Dichlorofluoromethane	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 UJ
Diethyl ether (Ethyl ether)	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Ethylbenzene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
n-Butylbenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
n-Propylbenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
Styrene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Tert-Butylbenzene	ug/kg	< 8 U	< 15 UJ	< 6 U	< 6 U	< 7 U	< 7 U	< 13 UJ	< 9 U	< 6 U
Tetrachloroethene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Tetrahydrofuran	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Toluene	ug/kg	< 8 U	6 J	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Trichloroethene	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	3 J	4 J	2 J
Trichlorofluoromethane (CFC-11)	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Vinyl Chloride	ug/kg	< 8 U	< 15 U	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U
Xylene (Total)	ug/kg	< 8 U	20	< 6 U	< 6 U	< 7 U	< 7 U	< 13 U	< 9 U	< 6 U

Appendix F - Analytical Data Tables
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

% = percent
< = less than the limit of quantitation
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
ug/kg = micrograms per kilogram
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
VOCs = volatile organic compounds

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 1.5 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve 0.75 inch, % passing	% passing	100	NA	NA	100	NA	NA	100	NA	NA	100	NA
Sieve, 4750 micron, % passing	% passing	99.8	NA	NA	99.9	NA	NA	100	NA	NA	100	NA
Sieve, 3350 micron, % passing	% passing	99.7	NA	NA	99.8	NA	NA	100	NA	NA	100	NA
Sieve, 2360 micron, % passing	% passing	99.7	NA	NA	99.5	NA	NA	100	NA	NA	99.8	NA
Sieve, 1180 micron, % passing	% passing	99.3	NA	NA	97.8	NA	NA	99.1	NA	NA	99.5	NA
Sieve, 600 micron, % passing	% passing	98.7	NA	NA	95.4	NA	NA	97.7	NA	NA	96.5	NA
Sieve, 300 micron, % passing	% passing	97.6	NA	NA	93.4	NA	NA	96.7	NA	NA	93.8	NA
Sieve, 150 micron, % passing	% passing	94.7	NA	NA	92.1	NA	NA	95.8	NA	NA	92.3	NA
Sieve, 75 micron, % passing	% passing	89.4	NA	NA	90.9	NA	NA	93.6	NA	NA	91.2	NA
Sieve, 64 micron, % passing	% passing	85.0	NA	NA	88.0	NA	NA	90.5	NA	NA	88.0	NA
Sieve, 50 micron, % passing	% passing	77.0	NA	NA	83.0	NA	NA	83.0	NA	NA	83.0	NA
Sieve, 20 micron, % passing	% passing	52.0	NA	NA	59.5	NA	NA	62.0	NA	NA	64.0	NA
Sieve, 5 micron, % passing	% passing	25.0	NA	NA	28.0	NA	NA	30.0	NA	NA	38.0	NA
Sieve, 2 micron, % passing	% passing	17.0	NA	NA	19.0	NA	NA	20.0	NA	NA	26.0	NA
Sieve, 1 micron, % passing	% passing	12.0	NA	NA	17.0	NA	NA	15.0	NA	NA	21.0	NA
Metals												
Arsenic	mg/kg	2.73 J	2.07 J	1.59 J	5.78	2.43 J	1.65 J	7.62	2.37 J	1.81 J	7.42	3.66
Barium	mg/kg	158	105	75.5	187	122	86.9	259	140	96.2	142 J	83.6 J
Cadmium	mg/kg	< 0.787 U	< 0.622 U	< 0.612 U	0.245 J	< 0.673 U	< 0.597 U	< 1.66 U	< 0.694 U	< 0.627 U	0.404 J	< 0.772 U
Chromium	mg/kg	21.4 J	18.5 J	14.1 J	28.4 J	20.0 J	12.6 J	41.4 J	21.9 J	16.6 J	21.1 J	12.3 J
Lead	mg/kg	24.5	12.9	11.2	40.8	17.3	9.94	46.7	18.8	12.7	27.8 J	14.8 J
Mercury	mg/kg	0.0598 J	0.0133 J	0.0461 J	0.0759 J	0.0799 J	0.0215 J	0.0903 J	0.0451 J	0.0353 J	0.0593 J	0.0265 J
Nickel	mg/kg	17.3	9.69	7.41	24.0	11.6	6.74	31.0	14.1	8.83	19.4 J	9.76 J
Selenium	mg/kg	< 3.15 U	< 2.49 U	< 2.45 U	< 4.84 U	< 2.69 U	< 2.39 U	2.89 J	< 2.78 U	< 2.51 U	< 5.45 U	< 3.09 U
Silver	mg/kg	< 0.787 U	< 0.622 U	< 0.612 U	< 1.21 U	< 0.673 U	< 0.597 U	< 1.66 U	< 0.694 U	< 0.627 U	< 1.36 U	< 0.772 U
Vanadium	mg/kg	36.4	31.3	25.1	46.7	33.5	23.8	67.2	35.3	27.6	34.7 J	20.1 J
Other												
Black Carbon	%	< 0.18 UJ	NA	NA	0.230 J	NA	NA	0.220 J	NA	NA	0.270 J	0.240 J
Percent Moisture	%	37.1	21.9	20.7	58.7	26.4	19.5	70.4	29.4	22.6	64.4	37.1
Total Organic Carbon	%	2.20	NA	NA	5.91	NA	NA	3.03	NA	NA	5.48	4.58
Priority PAHs												
1-Methylnaphthalene	ug/kg	6.02	0.262 J	< 0.69 UB	3.05	0.905	< 0.71 UB	3.21	1.59	0.333 J	3.30	2.52
2-Methylnaphthalene	ug/kg	9.90	0.649 J	< 1.6 UB	6.81	2.03	0.475 J	7.55	3.59	0.713 J	7.53	5.88
Acenaphthene	ug/kg	1.71	0.127	< 0.1 U	1.57	0.291	0.082 J	1.59	0.929	0.190	2.63	1.85
Acenaphthylene	ug/kg	3.36	0.085	< 0.04 U	6.47	0.212	0.059	4.29	0.798	0.110	8.28	5.59
Anthracene	ug/kg	5.24	0.111 J	< 0.1 U	9.73	0.366	< 0.1 U	7.77	1.69	0.214	15.3	9.94
Benzo(a)Anthracene	ug/kg	9.56	0.182 J	< 0.2 U	17.0	0.522	< 0.2 U	13.3	1.85	0.226	18.7	13.8
Benzo(a)Pyrene	ug/kg	7.39	< 0.1 U	< 0.1 U	14.4	< 0.1 U	< 0.1 U	11.7	1.92	< 0.1 U	16.3	13.2
Benzo(b)Fluoranthene	ug/kg	22.6	0.391	< 0.2 U	43.9	1.55	< 0.2 U	31.3	7.60	0.463	60.7	43.7
Benzo(g,h,i)Perylene	ug/kg	9.21	0.215	< 0.1 U	20.4	0.758	0.099	13.2	2.89	0.26	24.0	18.7
Benzo(j)+(k)Fluoranthene	ug/kg	5.44	0.075 J	< 0.1 U	14.2	0.258	< 0.1 U	8.18	1.76	0.088 J	20.4	15.2
Chrysene/Triphenylene	ug/kg	16.4	0.308	< 0.1 U	28.3	1.37	< 0.1 U	25.2	4.94	0.289	31.8	23.2
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	< 0.1 U	< 0.1 U	9.14	0.378	< 0.1 U	5.39	10.1	< 0.1 U	10.1 J	< 0.1 UJ
Fluoranthene	ug/kg	21.5	1.56	1.15	39.6	2.77	1.09	25.1	6.11	1.41	44.1	30.3
Fluorene	ug/kg	12.5	2.12	1.12	10.4	3.87	1.78	13.7	7.67	< 0.2 U	12.5	9.29
Indeno[1,2,3-cd]pyrene	ug/kg	7.41	< 0.1 U	< 0.1 U	16.5	0.621	< 0.1 U	10.8	2.48	< 0.1 U	21.9	15.2
Naphthalene	ug/kg	8.98	< 1.01 UB	< 0.492 UB	7.38	2.87	< 0.763 UB	7.49	4.04	< 1.20 UB	8.65	5.87
Phenanthrene	ug/kg	28.6	6.54	3.53	21.8	11.1	5.20	38.6	20.5	6.79	23.1	19.2
Pyrene	ug/kg	18.0	0.914	0.465	33.6	1.78	0.496	25.3	5.52	1.04	43.0	29.5
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	11.2	< 0.2 U	< 0.2 U	24.3	< 0.2 U	< 0.2 U	27.3	3.48	< 0.2 U	30.8	21.4
C1-Chrysenes	ug/kg	3.92	< 0.2 U	< 0.2 U	24.7	< 0.2 U	< 0.2 U	73.5	< 0.2 U	< 0.2 U	6.56	5.58
C1-Fluoranthenes/Pyrenes	ug/kg	17.5	0.538	0.258 J	27.7	1.96	< 0.5 U	29.5	4.98	0.475	37.9	28.7
C1-Fluorenes	ug/kg	6.97	0.903	0.565	6.05	1.62	< 0.4 U	6.64	3.03	0.831	7.19	5.66
C1-Phenanthrenes/Anthracenes	ug/kg	15.8	3.14	< 0.1 U	15.2	4.46	< 0.1 U	16.6	7.16	3.17	17.8	14.6
C2-Chrysenes	ug/kg	7.33	< 0.2 U	< 0.2 U	9.36	< 0.2 U	< 0.2 U	110	< 0.2 U	< 0.2 U	10.2	11.2
C2-Fluorenes	ug/kg	20.1	1.19	< 0.4 U	23.8	< 0.4 U	< 0.4 U	22.6	6.98	< 0.4 U	17.4	12.9
C2-Naphthalenes	ug/kg	22.4	1.19	< 0.7 U	11.8	3.14	1.01	13.4	6.08	1.10	14.9	11.7
C2-Phenanthrenes/Anthracenes	ug/kg	21.2	< 0.3 U	< 0.3 U	23.4	< 0.3 U	< 0.3 U	40.8	8.38	< 0.3 U	25.8	19.0
C3-Chrysenes	ug/kg	9.14	< 0.2 U	< 0.2 U	14.5	< 0.2 U	< 0.2 U	86.6	< 0.2 U	< 0.2 U	19.4	16.6
C3-Fluorenes	ug/kg	16.3	< 0.4 U	< 0.4 U	20.7	< 0.4 U	< 0.4 U	25.4	7.09	< 0.4 U	18.5	20.3
C3-Naphthalenes	ug/kg	32.0	1.32	< 0.7 U	17.1	3.17	< 0.7 U	29.8	19.7	2.78	14.7	11.4
C3-Phenanthrenes/Anthracenes	ug/kg	16.2	< 0.3 U	< 0.3 U	19.4	< 0.3 U	< 0.3 U	63.9	5.07	< 0.3 U	30.2	20.4
C4-Chrysenes	ug/kg	6.69	< 0.2 U	< 0.2 U	9.04	< 0.2 U	< 0.2 U	49.2	< 0.2 U	< 0.2 U	10.3	12.2

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Chemical	**Units**											
C4-Naphthalenes	ug/kg	18.1	2.41	< 0.7 U	21.0	2.77	< 0.7 U	11.8	5.61	2.10	18.1	12.2
C4-Phenanthrenes/Anthracenes	ug/kg	20.1	< 0.3 U	< 0.3 U	17.6	< 0.3 U	< 0.3 U	52.8	4.50	< 0.3 U	22.5	17.9
Perylene	ug/kg	655 EJ	148	75.7	917 EJ	746 EJ	126	935 EJ	968 EJ	461 EJ	1018 EJ	736 EJ
Phenanthrene, 2-methyl-	ug/kg	6.15	NA	NA	4.82	NA	NA	5.63	NA	NA	5.90	5.11
1,1-Biphenyl	ug/kg	4.94	NA	NA	3.66	NA	NA	3.84	NA	NA	4.06	3.77
18a-Oleanane	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U
1-Methyldibenzothiophene(1MDT)	ug/kg	0.80	NA	NA	1.21	NA	NA	0.97	NA	NA	1.14	0.74
1-Methylfluorene	ug/kg	3.52	NA	NA	3.10	NA	NA	3.39	NA	NA	3.63	2.93
1-Methylphenanthrene	ug/kg	4.03	NA	NA	2.99	NA	NA	3.42	NA	NA	3.20	2.84
2,3,5-Trimethylnaphthalene	ug/kg	3.83	NA	NA	2.16	NA	NA	1.63	NA	NA	2.39	1.60
2/3-Methyldibenzothiophene(2MDT)	ug/kg	2.55	NA	NA	2.83	NA	NA	2.25	NA	NA	3.14	2.45
2-Methylanthracene	ug/kg	4.69	NA	NA	5.55	NA	NA	5.33	NA	NA	6.30	5.31
2-Methylfluoranthene	ug/kg	2.54	NA	NA	4.37	NA	NA	3.66	NA	NA	6.01	4.12
3,6-Dimethylphenanthrene	ug/kg	1.41	NA	NA	1.71	NA	NA	2.55	NA	NA	2.82	2.01
3-Methylphenanthrene (3MP)	ug/kg	5.86	NA	NA	5.92	NA	NA	6.31	NA	NA	6.84	5.41
4-Methyldibenzothiophene(4MDT)	ug/kg	2.77	NA	NA	3.45	NA	NA	2.92	NA	NA	3.86	3.06
9/4-Methylphenanthrene (9MP)	ug/kg	3.59	NA	NA	4.14	NA	NA	4.93	NA	NA	5.17	3.92
Benzo(a)Fluoranthene	ug/kg	3.63	NA	NA	12.9	NA	NA	5.02	NA	NA	< 0.1 UJ	10.0 J
Benzo(b)fluorene	ug/kg	4.57	NA	NA	8.30	NA	NA	6.76	NA	NA	11.5	8.24
Benzothiophene	ug/kg	1.19	NA	NA	0.76	NA	NA	0.493	NA	NA	0.817 J	0.495 J
C1-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U
C1-Decalins	ug/kg	2.29	NA	NA	1.01	NA	NA	1.33	NA	NA	< 0.3 U	< 0.3 U
C1-Dibenzothiophenes	ug/kg	5.11	0.147	< 0.1 U	6.25	0.443	< 0.1 U	5.13	1.43	< 0.1 U	6.80	5.22
C1-Naphthalenes	ug/kg	9.73	0.561 J	< 1.3 UB	6.06	1.80	0.421 J	6.62	3.18	0.642 J	6.66	5.16
C1-Naphthobenzothiophenes	ug/kg	14.0	NA	NA	22.5	NA	NA	63.4	NA	NA	27.1	20.2
C20-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	4.38	NA	NA	< 0.6 U	< 0.6 U
C21-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	5.73	NA	NA	< 0.6 U	< 0.6 U
C26(20R)/C27(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	15.1	NA	NA	< 0.6 U	< 0.6 U
C26(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	10.5	NA	NA	< 0.6 U	< 0.6 U
C27(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	25.6	NA	NA	< 0.6 U	< 0.6 U
C28(20R)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	44.8	NA	NA	< 0.6 U	< 0.6 U
C28(20S)-TAS	ug/kg	< 0.6 U	NA	NA	< 0.6 U	NA	NA	45.5	NA	NA	< 0.6 U	< 0.6 U
C29-Hopane	ug/kg	28.4	NA	NA	78.8	NA	NA	185	NA	NA	56.8	73.0
C2-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U
C2-Decalins	ug/kg	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	< 0.3 U
C2-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	12.5	< 0.2 U	< 0.2 U	17.5	2.20	< 0.2 U	16.1	10.6
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	37.5	< 0.5 U	< 0.5 U	48.6	7.92	< 0.5 U	44.1	35.2
C2-Naphthobenzothiophenes	ug/kg	27.4	NA	NA	36.7	NA	NA	120	NA	NA	47.4	39.3
C30-Hopane	ug/kg	44.9	NA	NA	98.2	NA	NA	295	NA	NA	131	101
C3-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U
C3-Decalins	ug/kg	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	< 0.3 U
C3-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	15.3	< 0.2 U	< 0.2 U	37.0	3.67	< 0.2 U	18.1	13.9
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	20.2	< 0.5 U	< 0.5 U	48.2	5.71	< 0.5 U	24.6	15.5
C3-Naphthobenzothiophenes	ug/kg	27.2	NA	NA	31.6	NA	NA	129	NA	NA	44.1	35.9
C4-Benzo(b)thiophenes	ug/kg	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U
C4-Decalins	ug/kg	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	< 0.3 U	< 0.3 U
C4-Dibenzothiophenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	14.3	< 0.2 U	< 0.2 U	40.6	1.73	< 0.2 U	22.0	14.6
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	32.7	< 0.5 U	< 0.5 U	74.5	10.2	< 0.5 U	49.2	36.0
C4-Naphthobenzothiophenes	ug/kg	10.8	NA	NA	12.9	NA	NA	67.8	NA	NA	14.9	13.4
Carbazole	ug/kg	2.69	NA	NA	3.79	NA	NA	2.83	NA	NA	5.60	4.18
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	4.63	NA	NA	5.09	NA	NA	4.96	NA	NA	< 0.1 U	< 0.1 U
Dibenzofuran	ug/kg	6.97	NA	NA	5.20	NA	NA	7.72	NA	NA	6.17	4.68
Dibenzothiophene	ug/kg	4.23	0.188	0.087 J	4.83	0.732	< 0.1 U	4.19	1.76	0.287	5.94	4.73
Naphthalene, 2,6-dimethyl-	ug/kg	9.56	NA	NA	6.09	NA	NA	7.09	NA	NA	6.79	4.90
Naphthobenzothiophene	ug/kg	11.0	NA	NA	14.9	NA	NA	22.2	NA	NA	15.2	11.3
Retene	ug/kg	26.9	NA	NA	8.20	NA	NA	4.32	NA	NA	12.7	7.68
TPH												
EOM (Extracted Organic Material)	mg/kg	991	NA	NA	2033	NA	NA	2543	NA	NA	2544	1555
i-C15	mg/kg	0.014 J	NA	NA	0.020	NA	NA	0.016 J	NA	NA	0.031	0.028
i-C16	mg/kg	0.015	NA	NA	0.044	NA	NA	0.063	NA	NA	0.070	0.094
i-C18	mg/kg	0.026	NA	NA	0.024	NA	NA	0.031	NA	NA	0.052	0.043
n-C10 (n-Decane)	mg/kg	0.010 J	NA	NA	0.009 J	NA	NA	0.013 J	NA	NA	0.013 J	0.011 J
n-C11 (n-Undecane)	mg/kg	0.015 J	NA	NA	0.016 J	NA	NA	0.023	NA	NA	0.019	0.020
n-C12 (n-Dodecane)	mg/kg	0.048	NA	NA	0.027	NA	NA	0.072	NA	NA	0.034	0.035
n-C13 (n-Tridecane)	mg/kg	0.023 J	NA	NA	0.021 J	NA	NA	0.045 J	NA	NA	0.025 J	0.024 J
n-C14 (n-Tetradecane)	mg/kg	0.045	NA	NA	0.029	NA	NA	0.079	NA	NA	0.046	0.046
n-C15 (Pentadecane)	mg/kg	0.204	NA	NA	0.664	NA	NA	0.048	NA	NA	0.543	0.536

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
Sample Date		7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	0.089	NA	NA	0.127	NA	NA	0.137	NA	NA	0.084	0.089
n-C17 (Heptadecane)	mg/kg	0.138	NA	NA	0.237	NA	NA	0.253	NA	NA	0.959	0.647
n-C18 (Octadecane)	mg/kg	0.244	NA	NA	0.469	NA	NA	0.485	NA	NA	0.621	0.560
n-C19 (Nonadecane)	mg/kg	0.351	NA	NA	0.643	NA	NA	0.696	NA	NA	1.12	0.905
n-C20 (Eicosane)	mg/kg	0.125	NA	NA	0.262	NA	NA	0.160	NA	NA	0.403	0.353
n-C21 (Heneicosane)	mg/kg	0.505	NA	NA	1.69	NA	NA	1.23	NA	NA	2.18	1.95
n-C22 (Docosane)	mg/kg	0.172	NA	NA	0.277	NA	NA	0.176	NA	NA	0.203	0.323
n-C23 (Tricosane)	mg/kg	0.467	NA	NA	1.17	NA	NA	0.840	NA	NA	1.70	1.45
n-C24 (Tetracosane)	mg/kg	0.204	NA	NA	0.353	NA	NA	0.269	NA	NA	0.474	0.407
n-C25 (Pentacosane)	mg/kg	0.456	NA	NA	0.954	NA	NA	0.790	NA	NA	1.56	1.26
n-C26 (Hexacosane)	mg/kg	0.157	NA	NA	0.262	NA	NA	0.173	NA	NA	0.481	0.310
n-C27 (Heptacosane)	mg/kg	1.16	NA	NA	1.88	NA	NA	1.35	NA	NA	3.05	2.51
n-C28 (Octacosane)	mg/kg	0.442	NA	NA	0.861	NA	NA	0.456	NA	NA	1.11	0.965
n-C29 (Nonacosane)	mg/kg	3.49	NA	NA	7.70	NA	NA	2.70	NA	NA	2.56 J	7.18 J
n-C30 (n-Triacontane)	mg/kg	0.321	NA	NA	0.751	NA	NA	0.234	NA	NA	1.00	0.962
n-C31 (Hentriacontane)	mg/kg	3.54	NA	NA	9.18	NA	NA	2.75	NA	NA	10.7	9.99
n-C32 (Dotriacontane)	mg/kg	0.626	NA	NA	0.837	NA	NA	0.154	NA	NA	0.761	0.983
n-C33	mg/kg	5.05	NA	NA	13.8	NA	NA	4.70	NA	NA	15.8	11.4
n-C34 (Tetratriacontane)	mg/kg	0.448	NA	NA	1.21	NA	NA	0.447	NA	NA	0.558 J	1.33 J
n-C35	mg/kg	3.41	NA	NA	10.5	NA	NA	3.86	NA	NA	8.67	7.25
n-C36 (Hexatriacontane)	mg/kg	0.187	NA	NA	0.511	NA	NA	0.291	NA	NA	0.605	0.964
n-C37	mg/kg	0.972	NA	NA	1.94	NA	NA	0.746	NA	NA	2.05	1.95
n-C38 (Octatriacontane)	mg/kg	0.083	NA	NA	0.162	NA	NA	0.151	NA	NA	0.236	0.206
n-C39 (Nonatriacontane)	mg/kg	0.085	NA	NA	0.160	NA	NA	0.151	NA	NA	0.238	0.215
n-C40 (Tetracontane)	mg/kg	0.092	NA	NA	0.087	NA	NA	< 0.019 U	NA	NA	< 0.019 U	< 0.019 U
n-C9 (Nonane)	mg/kg	< 0.012 U	NA	NA	< 0.012 U	NA	NA	< 0.012 U	NA	NA	< 0.012 U	< 0.012 U
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.076	NA	NA	0.129	NA	NA	0.079	NA	NA	0.230	0.169
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.055	NA	NA	0.055	NA	NA	0.062	NA	NA	0.071	0.052
Total Alkanes	mg/kg	23.3	NA	NA	57.1	NA	NA	23.7	NA	NA	58.3	55.2
Total Petroleum Hydrocarbons	mg/kg	303	NA	NA	558	NA	NA	738	NA	NA	798	503
Total Resolveable Hydrocarbons	mg/kg	161	NA	NA	319	NA	NA	147	NA	NA	354 J	291 J
Unresolved Complex Mixture	mg/kg	142	NA	NA	239	NA	NA	591	NA	NA	444	213
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,1,1-Trichloroethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,1,2,2-Tetrachloroethane	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,1,2-Trichloroethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 15 U	< 12 U	< 12 U	< 30 U	< 15 U	< 12 U	< 47 U	< 13 U	< 11 U	< 34 U	< 24 U
1,1-Dichloroethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,1-Dichloroethene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,1-Dichloropropene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,2,3-Trichlorobenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
1,2,3-Trichloropropane	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
1,2,4-Trichlorobenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
1,2,4-Trimethylbenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
1,2-Dibromoethane (EDB)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
1,2-Dichlorobenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
1,2-Dichloroethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,2-Dichloropropane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,3,5-Trimethylbenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,3-Dichlorobenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
1,3-Dichloropropane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
1,4-Dichlorobenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
2,2-Dichloropropane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
2-Butanone (MEK)	ug/kg	6 J	< 12 U	< 12 U	14 J	< 15 U	< 12 U	< 47 UJ	< 13 U	< 11 U	< 34 U	< 24 U
2-Chlorotoluene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
2-Phenylbutane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
4-Chlorotoluene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 15 U	< 12 U	< 12 U	< 30 U	< 15 U	< 12 U	< 47 UJ	< 13 U	< 11 U	< 34 U	< 24 U
Acetone	ug/kg	34	21 J	< 24 U	78	19 J	9 J	100	14 J	10 J	69	40 J
Allyl chloride	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Benzene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Bromobenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Bromochloromethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Bromodichloromethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Bromoform (Tribromomethane)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U

	Location	SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Chemical	**Units**											
Bromomethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Carbon Tetrachloride	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Chlorobenzene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Chloroethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
Chloroform	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Chloromethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
cis-1,2-Dichloroethene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
cis-1,3-Dichloropropene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Dibromochloromethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
Dibromomethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
Dichlorofluoromethane	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Diethyl ether (Ethyl ether)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Ethylbenzene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Hexachloro-1,3-Butadiene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Isopropylbenzene (Cumene)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
Methylene Chloride (Dichloromethane)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Methyl-tert-butyl ether	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
n-Butylbenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 UJ	< 6 U	< 6 U	< 17 U	< 12 U
n-Propylbenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
p-Isopropyltoluene (Cymene)	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Styrene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Tert-Butylbenzene	ug/kg	< 8 UJ	< 6 U	< 6 U	< 15 UJ	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Tetrachloroethene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Tetrahydrofuran	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Toluene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
trans-1,2-Dichloroethene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
trans-1,3-Dichloropropene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Trichloroethene	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Vinyl Chloride	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U
Xylene (Total)	ug/kg	< 8 U	< 6 U	< 6 U	< 15 U	< 7 U	< 6 U	< 24 U	< 6 U	< 6 U	< 17 U	< 12 U

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038	SED-DA-033R	SED-DA-033R	SED-DA-033R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	11/20/2013	11/20/2013	11/20/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)	SED-DA-033R(0.0-0.5)	SED-DA-DUP-10-112013	SED-DA-033R(0.5-1.0)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	100	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	100	NA	NA	100	NA	NA	99.9	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.8	NA	NA	100	NA	NA	99.3	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	98.3	NA	NA	99.9	NA	NA	99.0	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	94.1	NA	NA	91.8	NA	NA	98.7	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	92.6	NA	NA	83.7	NA	NA	98.1	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	91.5	NA	NA	79.2	NA	NA	97.0	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	90.0	NA	NA	77.0	NA	NA	95.2	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	86.0	NA	NA	74.0	NA	NA	93.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	76.0	NA	NA	65.0	NA	NA	87.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	53.0	NA	NA	45.0	NA	NA	63.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	30.5	NA	NA	25.0	NA	NA	37.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	21.0	NA	NA	17.0	NA	NA	24.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	18.0	NA	NA	13.0	NA	NA	16.0	NA	NA
Metals												
Arsenic	mg/kg	3.09	2.45 J	8.37	6.51	2.70 J	9.13	7.33	2.51 J	2.97 J	2.29 J	1.30 J
Barium	mg/kg	144 J	126 J	154 J	203 J	159 J	223 J	142 J	163 J	124	85.0	72.1
Cadmium	mg/kg	< 0.742 U	< 0.637 U	0.273 J	< 1.04 U	< 0.683 U	0.514 J	0.196 J	< 0.668 U	< 1.15 U	< 0.704 U	< 0.621 U
Chromium	mg/kg	23.6 J	24.4 J	24.0 J	29.8 J	30.2 J	36.9 J	20.4 J	26.7 J	17.8 J	11.9 J	11.2 J
Lead	mg/kg	17.8 J	15.6 J	30.4 J	34.4 J	17.3 J	47.2 J	22.3 J	19.3 J	23.9	16.3	11.4
Mercury	mg/kg	0.0436 J	0.0367 J	0.0621 J	0.0772 J	0.0381 J	0.0868 J	0.0540 J	0.0407 J	0.0669 J	0.0406 J	0.0205 J
Nickel	mg/kg	14.8 J	12.8 J	19.9 J	22.5 J	14.8 J	30.8 J	18.5 J	16.6 J	14.4	9.79	6.99
Selenium	mg/kg	< 2.97 U	< 2.55 U	< 6.35 U	< 4.15 U	< 2.73 U	3.24 J	1.22 J	< 2.67 U	< 4.59 U	< 2.82 U	< 2.48 U
Silver	mg/kg	< 0.742 U	< 0.637 U	< 1.59 U	< 1.04 U	< 0.683 U	< 1.85 U	< 0.743 U	< 0.668 U	< 1.15 U	< 0.704 U	< 0.621 U
Vanadium	mg/kg	36.8 J	38.6 J	38.3 J	52.9 J	48.2 J	59.3 J	37.7 J	44.1 J	29.9	20.1	19.0
Other												
Black Carbon	%	NA	NA	0.240 J	NA	NA	0.310 J	NA	NA	0.21 J	0.2 J	NA
Percent Moisture	%	33.3	23.1	68.8	52.8	28.9	73.2	35.3	28.0	56.4	32.4	21.8
Total Organic Carbon	%	NA	NA	4.70	NA	NA	5.67	NA	NA	1.98	1.91	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	< 0.5 U	0.817	3.98	4.60	< 0.5 U	4.18	2.99	1.26	3.47	5.60	0.984
2-Methylnaphthalene	ug/kg	3.21	1.56	9.53	10.6	3.02	9.55	6.44	2.73	7.00	11.5	1.70
Acenaphthene	ug/kg	0.600	0.446	2.62	3.63	0.462	2.03	1.17	0.310	0.744	0.911	0.178
Acenaphthylene	ug/kg	0.313	0.284	16.0	6.15	0.302	14.3	1.59	0.270	2.18	2.92	0.113
Anthracene	ug/kg	0.953	0.881	26.8	11.4	0.626	24.7	3.06	0.648	3.09	4.21	< 0.1 U
Benzo(a)Anthracene	ug/kg	0.832	2.01	38.0	14.7	0.469	30.6	5.01	1.61	4.89	6.88	< 0.2 U
Benzo(a)Pyrene	ug/kg	< 0.1 U	1.17	30.6	14.3	< 0.1 U	31.1	3.33	0.734	3.03	4.59	< 0.1 U
Benzo(b)Fluoranthene	ug/kg	3.41	1.97	103	51.8	3.26	104	17.5	3.49	14.5	22.7	< 0.2 U
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	0.942	37.2	20.6	2.60	33.4	4.70	0.895	4.90	6.31	< 0.1 U
Benzo(j)+(k)Fluoranthene	ug/kg	0.752	0.920	36.2	15.4	0.774	36.8	3.12	0.857	3.87	2.51	< 0.1 U
Chrysene/Triphenylene	ug/kg	3.55	2.44	49.4	30.2	2.96	45.3	12.6	3.43	11.3	15.6	< 0.1 U
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	0.347	13.0	7.90	0.875	12.2	< 0.1 U	0.957	2.01	2.30	< 0.1 U
Fluoranthene	ug/kg	4.80	6.37	74.9	33.3	3.45	66.2	13.7	4.89	10.6	14.5	1.08
Fluorene	ug/kg	7.91	5.47	13.8	16.2	6.04	16.2	9.53	4.22	4.71	6.71	1.13
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	0.853	39.4	16.6	< 0.1 U	35.7	5.26	0.827	4.46	5.98	< 0.1 U
Naphthalene	ug/kg	3.57	2.07	10.2	10.5	3.84	9.30	8.94	3.71	8.25	13.0	2.84
Phenanthrene	ug/kg	26.4	18.8	30.4	34.8	17.3	42.0	24.6	13.5	9.28	12.6	2.16
Pyrene	ug/kg	2.81	4.59	70.0	37.7	2.01	67.0	10.7	3.13	7.49	9.99	0.584
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	< 0.2 U	1.24	50.3	28.3	< 0.2 U	55.6	6.64	1.14	5.43	9.08	< 0.2 U
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	20.8	26.5	< 0.2 U	41.7	17.3	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C1-Fluoranthenes/Pyrenes	ug/kg	2.38	3.13	49.9	37.7	2.47	48.7	12.4	2.83	9.12	12.4	0.602
C1-Fluorenes	ug/kg	3.25	< 0.4 U	8.13	8.15	2.31	8.54	4.86	1.91	2.58	3.15	0.719
C1-Phenanthrenes/Anthracenes	ug/kg	7.88	6.70	22.1	22.6	5.79	25.8	10.7	6.09	9.06	10.7	< 0.1 U
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	17.1	31.9	< 0.2 U	20.7	4.43	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C2-Fluorenes	ug/kg	4.76	< 0.4 U	28.4	23.2	< 0.4 U	31.8	9.67	2.58	9.95 J	5.71 J	< 0.4 U
C2-Naphthalenes	ug/kg	7.72	< 0.7 U	15.5	17.8	4.96	16.2	9.59	3.90	7.55	11.2	2.06
C2-Phenanthrenes/Anthracenes	ug/kg	5.82	7.51	29.7	31.0	< 0.3 U	35.3	12.6	7.96	11.7	12.9	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	17.2	31.5	< 0.2 U	25.5	8.29	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
C3-Fluorenes	ug/kg	5.64	< 0.4 U	21.7	29.3	< 0.4 U	31.2	9.63	6.29	4.75	5.08	< 0.4 U
C3-Naphthalenes	ug/kg	29.5	< 0.7 U	15.1	16.3	3.74	16.1	7.95	2.79	4.70 J	10.9 J	3.55
C3-Phenanthrenes/Anthracenes	ug/kg	1.61	4.38	29.6	39.3	< 0.3 U	31.9	7.01	2.78	5.44	8.42	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	15.0	4.25	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038	SED-DA-033R	SED-DA-033R	SED-DA-033R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	11/20/2013	11/20/2013	11/20/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)	SED-DA-033R(0.0-0.5)	SED-DA-DUP-10-112013	SED-DA-033R(0.5-1.0)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	17.1	< 0.7 U	11.8	13.1	6.33	13.1	5.21	2.61	< 0.7 UJ	9.35 J	4.19
C4-Phenanthrenes/Anthracenes	ug/kg	1.53	3.94	20.2	33.7	< 0.3 U	32.8	8.89	3.69	6.71	6.19	< 0.3 U
Perylene	ug/kg	826 EJ	190	755 EJ	907 EJ	787 EJ	835 EJ	539	230	275 J	332 J	32.9 J
Phenanthrene, 2-methyl-	ug/kg	NA	NA	6.99	NA	NA	9.22	NA	NA	3.14	3.98	< 0.1 U
1,1-Biphenyl	ug/kg	NA	NA	4.00	NA	NA	3.73	NA	NA	4.64	6.08	NA
18a-Oleanane	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	1.37	NA	NA	1.16	NA	NA	0.233	0.364	< 0.1 U
1-Methylfluorene	ug/kg	NA	NA	3.62	NA	NA	4.54	NA	NA	1.65	2.26	NA
1-Methylphenanthrene	ug/kg	NA	NA	4.01	NA	NA	4.52	NA	NA	1.08	1.34	< 0.1 U
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	2.90	NA	NA	2.93	NA	NA	0.365	0.652	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	3.20	NA	NA	3.40	NA	NA	1.33	1.79	< 0.1 U
2-Methylanthracene	ug/kg	NA	NA	8.84	NA	NA	7.67	NA	NA	4.98	5.26	< 0.1 U
2-Methylfluoranthene	ug/kg	NA	NA	9.34	NA	NA	9.09	NA	NA	1.23	1.59	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	2.70	NA	NA	3.22	NA	NA	0.563	0.719	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	8.25	NA	NA	9.98	NA	NA	2.69	3.28	< 0.1 U
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	3.84	NA	NA	3.98	NA	NA	1.39	1.86	< 0.1 U
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	6.07	NA	NA	8.50	NA	NA	1.52	2.00	< 0.1 U
Benzo(a)Fluoranthene	ug/kg	NA	NA	< 0.1 U	NA	NA	10.7	NA	NA	2.58 J	< 0.1 UJ	NA
Benzo(b)fluorene	ug/kg	NA	NA	11.8	NA	NA	13.9	NA	NA	2.43	3.44	NA
Benzothiophene	ug/kg	NA	NA	0.652	NA	NA	0.55	NA	NA	< 0.1 U	< 0.1 U	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U	NA
C1-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	7.71	11.4	NA
C1-Dibenzothiophenes	ug/kg	1.46	< 0.1 U	7.03	8.54	0.609	7.13	2.78	0.923	2.27	3.09	< 0.1 U
C1-Naphthalenes	ug/kg	2.02	1.45	8.31	9.35	1.90	8.44	5.79	2.45	6.25	10.2	1.64
C1-Naphthobenzothiophenes	ug/kg	NA	NA	24.1	NA	NA	28.3	NA	NA	7.49	10.6	NA
C20-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
C21-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
C26(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
C27(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
C28(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
C28(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	< 0.6 U	NA
C29-Hopane	ug/kg	NA	NA	154	NA	NA	164	NA	NA	< 0.6 U	< 0.6 U	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U	NA
C2-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	4.85	7.81	NA
C2-Dibenzothiophenes	ug/kg	0.935	1.31	14.8	< 0.2 U	0.665	15.1	4.21	1.10	3.30	4.55	< 0.2 U
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	4.01	46.0	56.4	< 0.5 U	55.1	14.9	3.18	19.2	17.0	< 0.5 U
C2-Naphthobenzothiophenes	ug/kg	NA	NA	37.6	NA	NA	48.5	NA	NA	15.9	21.2	NA
C30-Hopane	ug/kg	NA	NA	158	NA	NA	197	NA	NA	< 0.6 U	< 0.6 U	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U	NA
C3-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	4.15 J	7.95 J	NA
C3-Dibenzothiophenes	ug/kg	0.497	1.54	15.1	< 0.2 U	0.407	16.2	5.77	1.13	4.57	6.20	< 0.2 U
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	2.02	21.8	34.0	< 0.5 U	23.5	14.1	1.76	5.81	7.77	< 0.5 U
C3-Naphthobenzothiophenes	ug/kg	NA	NA	38.7	NA	NA	48.3	NA	NA	10.4	12.2	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	< 0.2 U	NA
C4-Decalins	ug/kg	NA	NA	< 0.3 U	NA	NA	< 0.3 U	NA	NA	6.46	6.17	NA
C4-Dibenzothiophenes	ug/kg	0.690	0.936	17.9	< 0.2 U	0.453	19.5	4.97	0.620	4.62	5.66	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	3.83	23.5	< 0.5 U	< 0.5 U	29.0	12.2	4.03	11.3	14.0	< 0.5 U
C4-Naphthobenzothiophenes	ug/kg	NA	NA	15.7	NA	NA	19.9	NA	NA	7.60	7.06	NA
Carbazole	ug/kg	NA	NA	8.66	NA	NA	7.99	NA	NA	1.02	1.28	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	< 0.1 U	NA	NA	< 0.1 U	NA	NA	5.64	7.37	NA
Dibenzofuran	ug/kg	NA	NA	7.38	NA	NA	8.19	NA	NA	2.61	4.19	NA
Dibenzothiophene	ug/kg	2.16	< 0.1 U	5.47	6.58	1.10	6.48	3.43	1.42	2.29	2.91	0.286
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	8.52	NA	NA	8.79	NA	NA	3.37	5.63	NA
Naphthobenzothiophene	ug/kg	NA	NA	17.2	NA	NA	16.6	NA	NA	6.44	10.0	NA
Retene	ug/kg	NA	NA	7.92	NA	NA	8.81	NA	NA	2.50	2.84	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	2387	NA	NA	2238	NA	NA	317	416	NA
i-C15	mg/kg	NA	NA	0.026	NA	NA	0.029	NA	NA	0.016 J	0.013 J	NA
i-C16	mg/kg	NA	NA	0.109	NA	NA	0.102	NA	NA	0.007	0.009	NA
i-C18	mg/kg	NA	NA	0.031	NA	NA	0.041	NA	NA	0.007	0.008	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.020 J	NA	NA	0.020 J	NA	NA	0.185	0.281	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.034	NA	NA	0.026	NA	NA	0.275	0.450	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.055	NA	NA	0.053	NA	NA	0.108 J	0.182 J	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.049	NA	NA	0.040 J	NA	NA	0.031 J	0.055	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.069	NA	NA	0.097	NA	NA	0.041	0.069	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.369	NA	NA	0.403	NA	NA	0.022	0.043	NA

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038	SED-DA-033R	SED-DA-033R	SED-DA-033R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	11/20/2013	11/20/2013	11/20/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)	SED-DA-033R(0.0-0.5)	SED-DA-DUP-10-112013	SED-DA-033R(0.5-1.0)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.133	NA	NA	0.141	NA	NA	0.025	0.031	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	2.74	NA	NA	1.13	NA	NA	0.129	0.161	NA
n-C18 (Octadecane)	mg/kg	NA	NA	1.01	NA	NA	1.01	NA	NA	0.171	0.269	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	1.42	NA	NA	1.88	NA	NA	0.562	0.813	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.602	NA	NA	0.755	NA	NA	0.056	0.049	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	3.32	NA	NA	2.63	NA	NA	0.107	0.135	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.475	NA	NA	0.494	NA	NA	0.058	0.068	NA
n-C23 (Tricosane)	mg/kg	NA	NA	3.20	NA	NA	3.13	NA	NA	0.234	0.276	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.723	NA	NA	0.749	NA	NA	0.098	0.113	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	3.29	NA	NA	3.01	NA	NA	0.260	0.330	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.867	NA	NA	0.854	NA	NA	1.354	0.854	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	5.89	NA	NA	5.12	NA	NA	0.446 J	0.769 J	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.610	NA	NA	1.42	NA	NA	0.216	0.174	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	6.57	NA	NA	6.75	NA	NA	1.729	1.951	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.687	NA	NA	0.878	NA	NA	0.281	0.196	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	7.45	NA	NA	7.25	NA	NA	1.926	1.892	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	1.38	NA	NA	1.46	NA	NA	0.148	0.199	NA
n-C33	mg/kg	NA	NA	10.4	NA	NA	10.1	NA	NA	1.688	1.560	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	1.36	NA	NA	1.83	NA	NA	0.145 J	0.285 J	NA
n-C35	mg/kg	NA	NA	9.55	NA	NA	10.8	NA	NA	1.503	0.943	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.619	NA	NA	0.561	NA	NA	0.064	0.113	NA
n-C37	mg/kg	NA	NA	1.49	NA	NA	1.35	NA	NA	0.617	0.577	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.236	NA	NA	0.366	NA	NA	0.044	0.063	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.315	NA	NA	0.315	NA	NA	0.036	0.042	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	< 0.019 U	NA
n-C9 (Nonane)	mg/kg	NA	NA	< 0.012 U	NA	NA	< 0.012 U	NA	NA	0.027	0.030	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.451	NA	NA	0.277	NA	NA	0.027	0.036	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.119	NA	NA	0.098	NA	NA	0.016	0.024	NA
Total Alkanes	mg/kg	NA	NA	65.7	NA	NA	65.2	NA	NA	12.7	13.1	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	705	NA	NA	673	NA	NA	177	193	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	364	NA	NA	331	NA	NA	89	106	NA
Unresolved Complex Mixture	mg/kg	NA	NA	340	NA	NA	342	NA	NA	88	87	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,1,1-Trichloroethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,1,2,2-Tetrachloroethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,1,2-Trichloroethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 14 U	< 11 U	< 49 U	< 26 U	< 13 U	< 62 U	< 15 U	< 13 U	< 22 U	< 16 U	< 11 U
1,1-Dichloroethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,1-Dichloroethene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,1-Dichloropropene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2,3-Trichlorobenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2,3-Trichloropropane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2,4-Trichlorobenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2,4-Trimethylbenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2-Dibromoethane (EDB)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2-Dichlorobenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2-Dichloroethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,2-Dichloropropane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,3,5-Trimethylbenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,3-Dichlorobenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,3-Dichloropropane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
1,4-Dichlorobenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
2,2-Dichloropropane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
2-Butanone (MEK)	ug/kg	< 14 U	< 11 U	< 49 U	11 J	6 J	< 62 U	7 J	< 13 U	< 22 U	< 16 U	< 11 U
2-Chlorotoluene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
2-Phenylbutane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
4-Chlorotoluene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 14 U	< 11 U	< 49 U	< 26 U	< 13 U	< 62 U	< 15 U	< 13 U	< 22 U	< 16 U	< 11 U
Acetone	ug/kg	27 J	13 J	100	62	28	140	36	20 J	**46**	**43**	9 J
Allyl chloride	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Benzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Bromobenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Bromochloromethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Bromodichloromethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Bromoform (Tribromomethane)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038	SED-DA-033R	SED-DA-033R	SED-DA-033R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	11/20/2013	11/20/2013	11/20/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)	SED-DA-033R(0.0-0.5)	SED-DA-DUP-10-112013	SED-DA-033R(0.5-1.0)
Chemical	**Units**											
Bromomethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Carbon Tetrachloride	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Chlorobenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Chloroethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Chloroform	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Chloromethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
cis-1,2-Dichloroethene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
cis-1,3-Dichloropropene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Dibromochloromethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Dibromomethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Dichlorofluoromethane	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 UJ	< 6 U
Diethyl ether (Ethyl ether)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Ethylbenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Hexachloro-1,3-Butadiene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Isopropylbenzene (Cumene)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Methylene Chloride (Dichloromethane)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Methyl-tert-butyl ether	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
n-Butylbenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
n-Propylbenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
p-Isopropyltoluene (Cymene)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Styrene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Tert-Butylbenzene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Tetrachloroethene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Tetrahydrofuran	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Toluene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
trans-1,2-Dichloroethene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
trans-1,3-Dichloropropene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Trichloroethene	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	1 J	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Vinyl Chloride	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U
Xylene (Total)	ug/kg	< 7 U	< 6 U	< 24 U	< 13 U	< 6 U	< 31 U	< 8 U	< 7 U	< 11 U	< 8 U	< 6 U

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-033R	SED-DA-034R	SED-DA-034R	SED-DA-034R	SED-DA-035R	SED-DA-035R	SED-DA-035R	SED-DA-036R	SED-DA-036R	SED-DA-036R	SED-DA-037R
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-033R(1.0-1.5)	SED-DA-034R(0.0-0.5)	SED-DA-034R(0.5-1.0)	SED-DA-034R(1.0-1.5)	SED-DA-035R(0.0-0.5)	SED-DA-035R(0.5-1.0)	SED-DA-035R(1.0-1.5)	SED-DA-036R(0.0-0.5)	SED-DA-036R(0.5-1.0)	SED-DA-036R(1.0-1.5)	SED-DA-037R(0.0-0.5)
Chemical	**Units**											
Grain Size												
Sieve 3 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve 1.5 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve 0.75 inch, % passing	% passing	NA	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve, 4750 micron, % passing	% passing	NA	100	NA	NA	100	NA	NA	100	NA	NA	100
Sieve, 3350 micron, % passing	% passing	NA	99.5	NA	NA	100	NA	NA	99.6	NA	NA	99.7
Sieve, 2360 micron, % passing	% passing	NA	97.0	NA	NA	95.9	NA	NA	95.9	NA	NA	97.9
Sieve, 1180 micron, % passing	% passing	NA	94.5	NA	NA	92.2	NA	NA	95.0	NA	NA	97.0
Sieve, 600 micron, % passing	% passing	NA	92.5	NA	NA	89.7	NA	NA	93.9	NA	NA	96.0
Sieve, 300 micron, % passing	% passing	NA	91.1	NA	NA	87.5	NA	NA	92.9	NA	NA	94.9
Sieve, 150 micron, % passing	% passing	NA	90.0	NA	NA	85.2	NA	NA	92.2	NA	NA	93.8
Sieve, 75 micron, % passing	% passing	NA	89.1	NA	NA	83.8	NA	NA	91.4	NA	NA	92.6
Sieve, 64 micron, % passing	% passing	NA	88.0	NA	NA	83.0	NA	NA	90.0	NA	NA	92.0
Sieve, 50 micron, % passing	% passing	NA	84.0	NA	NA	77.0	NA	NA	88.0	NA	NA	89.5
Sieve, 20 micron, % passing	% passing	NA	74.0	NA	NA	66.0	NA	NA	71.0	NA	NA	78.0
Sieve, 5 micron, % passing	% passing	NA	50.0	NA	NA	53.0	NA	NA	44.0	NA	NA	52.0
Sieve, 2 micron, % passing	% passing	NA	37.0	NA	NA	36.0	NA	NA	30.0	NA	NA	40.0
Sieve, 1 micron, % passing	% passing	NA	24.5	NA	NA	20.0	NA	NA	24.0	NA	NA	34.0
Metals												
Arsenic	mg/kg	2.08 J	5.92	1.40 J	1.71 J	5.38 J	2.60 J	1.37 J	4.70 J	1.53 J	1.93 J	**7.55**
Barium	mg/kg	67.1	149	90.3	73.1	233	123	90.5	137	86.5	82.8	119
Cadmium	mg/kg	< 0.590 U	< 1.22 U	< 0.628 U	< 0.622 U	< 1.46 U	< 0.737 U	< 0.641 U	< 1.19 U	< 0.650 U	< 0.621 U	< 1.70 U
Chromium	mg/kg	11.0 J	18.9 J	14.1 J	11.9 J	28.6 J	17.1 J	13.9 J	15.7 J	14.2 J	12.7 J	16.1 J
Lead	mg/kg	12.2	27.3	13.6	12.5	**43.6**	21.8	12.8	24.4	12.6	12.0	30.2
Mercury	mg/kg	0.0293 J	0.0593 J	0.0373 J	0.0208 J	0.0843 J	0.0640 J	0.0459 J	0.0375 J	0.0224 J	0.0359 J	0.0631 J
Nickel	mg/kg	6.91	**17.0**	9.12	6.79	**25.4**	13.7	8.44	15.0	9.08	7.98	**19.1**
Selenium	mg/kg	< 2.36 U	< 4.90 U	< 2.51 U	< 2.49 U	< 5.85 U	< 2.95 U	< 2.57 U	< 4.76 U	< 2.60 U	< 2.48 U	< 6.79 U
Silver	mg/kg	< 0.590 U	< 1.22 U	< 0.628 U	< 0.622 U	< 1.46 U	< 0.737 U	< 0.641 U	< 1.19 U	< 0.650 U	< 0.621 U	< 1.70 U
Vanadium	mg/kg	20.5	33.0	25.4	22.7	52.2	28.8	24.2	26.3	23.9	21.8	28.0
Other												
Black Carbon	%	NA	0.3 J	NA	NA	0.29 J	NA	NA	0.29 J	NA	NA	0.36 J
Percent Moisture	%	19.3	61.1	23.5	22.7	65.8	32.8	22.8	59.6	23.8	21.8	71.4
Total Organic Carbon	%	NA	3.34	NA	NA	2.59	NA	NA	5.51	NA	NA	5.02
Priority PAHs												
1-Methylnaphthalene	ug/kg	1.94	9.82	2.13	0.957	9.06	6.52	3.68	9.64	1.24	1.88	15.7
2-Methylnaphthalene	ug/kg	3.40	18.8	3.67	1.51	18.3	12.0	6.08	19.7	2.89	3.30	31.5
Acenaphthene	ug/kg	< 0.1 U	1.08	0.528	0.116	1.60	1.15	0.256	1.61	< 0.1 U	< 0.1 U	2.37
Acenaphthylene	ug/kg	< 0 U	7.41	0.504	0.072	7.78	1.49	0.147	7.94	< 0 U	< 0 U	12.2
Anthracene	ug/kg	0.062 J	10.4	0.593	0.092 J	11.4	2.26	0.143	11.6	0.102 J	0.096 J	18.1
Benzo(a)Anthracene	ug/kg	< 0.2 U	16.1	0.989	< 0.2 U	17.2	3.05	0.222	18.8	< 0.2 U	< 0.2 U	26.4 J
Benzo(a)Pyrene	ug/kg	< 0.1 U	11.0	0.496	< 0.1 U	11.5	2.15	0.088 J	13.4	< 0.1 U	< 0.1 U	17.8
Benzo(b)Fluoranthene	ug/kg	< 0.2 U	52.0	5.10	< 0.2 U	52.5	17.1	0.718	56.7	< 0.2 U	< 0.2 U	75.6
Benzo(g,h,i)Perylene	ug/kg	< 0.1 U	14.7	1.96	< 0.1 U	14.9	6.94	0.274	17.8	< 0.1 U	0.100	22.7 J
Benzo(j)+(k)Fluoranthene	ug/kg	< 0.1 U	7.75	0.766	< 0.1 U	8.15	1.09	0.288	9.09	< 0.1 U	< 0.1 U	14.3
Chrysene/Triphenylene	ug/kg	< 0.1 U	29.3	3.00	< 0.1 U	30.0	8.33	0.271	35.7	< 0.1 U	< 0.1 U	49.6
Dibenz(a,h)Anthracene	ug/kg	< 0.1 U	5.50	< 0.1 U	< 0.1 U	3.43	1.27	< 0.1 U	5.68	< 0.1 U	< 0.1 U	24.5 J
Fluoranthene	ug/kg	0.527	30.0	3.95	1.00	30.3	8.63	1.73	30.7	1.06	0.903	44.1
Fluorene	ug/kg	1.43	8.89	2.06	0.869	9.61	5.82	2.42	11.0	0.881	0.992	14.5
Indeno[1,2,3-cd]pyrene	ug/kg	< 0.1 U	15.0	< 0.1 U	< 0.1 U	11.6	4.13	0.252	14.6	< 0.1 U	< 0.1 U	18.2
Naphthalene	ug/kg	4.37	23.0	6.42	2.45	22.9	16.7	8.15	23.3	3.79	4.41	33.9
Phenanthrene	ug/kg	1.88	16.7	4.68	1.65	15.3	10.4	4.37	15.6	1.55	1.53	22.2
Pyrene	ug/kg	< 0.317 UB	21.5	2.62	0.564	24.3	7.54	0.987	26.9	0.554	< 0.396 UB	38.8
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	< 0.2 U	20.5	2.05	< 0.2 U	20.8	6.14	0.212	23.4	< 0.2 U	< 0.2 U	31.7
C1-Chrysenes	ug/kg	< 0.2 U	62.3	< 0.2 U	< 0.2 U	33.4	10.7	< 0.2 U	72.6	< 0.2 U	< 0.2 U	71.3
C1-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	21.0	2.40	0.473	26.4	7.82	0.754	31.1	< 0.5 U	< 0.5 U	52.9
C1-Fluorenes	ug/kg	0.50	4.25	< 0.4 U	0.368	5.01	1.95	0.624	6.84	< 0.4 U	0.338 J	7.38
C1-Phenanthrenes/Anthracenes	ug/kg	< 0.1 U	13.5	5.21	< 0.1 U	15.0	8.34	< 0.1 U	15.9	< 0.1 U	< 0.1 U	20.5
C2-Chrysenes	ug/kg	< 0.2 U	10.9	< 0.2 U	< 0.2 U	22.0	8.67	< 0.2 U	28.7	< 0.2 U	< 0.2 U	41.3
C2-Fluorenes	ug/kg	< 0.4 U	7.72	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	12.3	< 0.4 U	< 0.4 U	34.32
C2-Naphthalenes	ug/kg	< 0.7 U	13.8	3.14	1.33	15.7	8.23	3.53	16.6	< 0.7 U	3.32	24.6
C2-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	16.1	4.97	< 0.3 U	20.2	9.73	< 0.3 U	23.4	< 0.3 U	< 0.3 U	33.5
C3-Chrysenes	ug/kg	< 0.2 U	7.07	< 0.2 U	< 0.2 U	15.84	7.85	< 0.2 U	23.6	< 0.2 U	< 0.2 U	25.5
C3-Fluorenes	ug/kg	< 0.4 U	9.93	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	9.18	< 0.4 U	< 0.4 U	18.8
C3-Naphthalenes	ug/kg	< 0.7 U	7.53	4.12	1.45	6.50	5.44	2.39	10.1	< 0.7 U	3.51	12.8
C3-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	13.5	1.97	< 0.3 U	17.3	7.79	< 0.3 U	26.3	< 0.3 U	< 0.3 U	34.2
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	3.48	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

	Location	SED-DA-033R	SED-DA-034R	SED-DA-034R	SED-DA-034R	SED-DA-035R	SED-DA-035R	SED-DA-035R	SED-DA-036R	SED-DA-036R	SED-DA-036R	SED-DA-037R
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-033R(1.0-1.5)	SED-DA-034R(0.0-0.5)	SED-DA-034R(0.5-1.0)	SED-DA-034R(1.0-1.5)	SED-DA-035R(0.0-0.5)	SED-DA-035R(0.5-1.0)	SED-DA-035R(1.0-1.5)	SED-DA-036R(0.0-0.5)	SED-DA-036R(0.5-1.0)	SED-DA-036R(1.0-1.5)	SED-DA-037R(0.0-0.5)
Chemical	**Units**											
C4-Naphthalenes	ug/kg	< 0.7 U	5.41	2.15	1.02	6.38	2.85	0.796	12.8	< 0.7 U	< 0.7 U	6.30
C4-Phenanthrenes/Anthracenes	ug/kg	< 0.3 U	13.0	1.43	< 0.3 U	15.6	7.33	< 0.3 U	26.7	< 0.3 U	< 0.3 U	32.8
Perylene	ug/kg	4.59 J	745	223 J	25.1 J	819	724 J	15.4 J	909	27.7 J	2.30 J	854
Phenanthrene, 2-methyl-	ug/kg	< 0.1 U	4.58	1.08	< 0.1 U	4.81	2.39	< 0.1 U	4.83	< 0.1 U	< 0.1 U	6.05
1,1-Biphenyl	ug/kg	NA	5.72	NA	NA	5.80	NA	NA	5.45	NA	NA	7.11
18a-Oleanane	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
1-Methyldibenzothiophene(1MDT)	ug/kg	< 0.1 U	0.479	0.077 J	< 0.1 U	0.393	0.254	< 0.1 U	0.736	< 0.1 U	< 0.1 U	0.797
1-Methylfluorene	ug/kg	NA	2.17	NA	NA	2.55	NA	NA	3.57	NA	NA	3.91
1-Methylphenanthrene	ug/kg	< 0.1 U	2.01	0.421	< 0.1 U	2.07	1.08	< 0.1 U	2.56	< 0.1 U	< 0.1 U	3.55
2,3,5-Trimethylnaphthalene	ug/kg	NA	0.753	NA	NA	0.918	NA	NA	1.04	NA	NA	1.39
2/3-Methyldibenzothiophene(2MDT)	ug/kg	< 0.1 U	1.42	0.383	< 0.1 U	1.71	0.974	< 0.1 U	2.74	< 0.1 U	< 0.1 U	3.03
2-Methylanthracene	ug/kg	< 0.1 U	6.60	4.68	< 0.1 U	7.42	5.15	< 0.1 U	7.13	< 0.1 U	< 0.1 U	9.03
2-Methylfluoranthene	ug/kg	NA	3.17	NA	NA	3.58	NA	NA	4.18	NA	NA	6.19
3,6-Dimethylphenanthrene	ug/kg	NA	1.03	NA	NA	1.53	NA	NA	1.95	NA	NA	3.02
3-Methylphenanthrene (3MP)	ug/kg	< 0.1 U	3.84	0.947	< 0.1 U	4.41	2.19	< 0.1 U	4.92	< 0.1 U	< 0.1 U	6.17
4-Methyldibenzothiophene(4MDT)	ug/kg	< 0.1 U	2.02	0.459	< 0.1 U	2.27	1.30	< 0.1 U	3.04	< 0.1 U	< 0.1 U	3.61
9/4-Methylphenanthrene (9MP)	ug/kg	< 0.1 U	2.91	0.582	< 0.1 U	3.46	1.54	< 0.1 U	4.03	< 0.1 U	< 0.1 U	5.53
Benzo(a)Fluoranthene	ug/kg	NA	5.80	NA	NA	0.89	NA	NA	11.4	NA	NA	6.87
Benzo(b)fluorene	ug/kg	NA	5.52	NA	NA	7.23	NA	NA	8.66	NA	NA	13.2
Benzothiophene	ug/kg	NA	1.06	NA	NA	< 0.1 U	NA	NA	0.928	NA	NA	1.43
C1-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U
C1-Decalins	ug/kg	NA	15.8	NA	NA	17.7	NA	NA	18.2	NA	NA	20.2
C1-Dibenzothiophenes	ug/kg	< 0.1 U	3.02	0.663	< 0.1 U	3.38	1.83	< 0.1 U	5.02	< 0.1 U	< 0.1 U	5.74
C1-Naphthalenes	ug/kg	3.26	17.1	3.55	1.51	16.3	11.3	5.96	17.5	2.53	3.17	28.2
C1-Naphthobenzothiophenes	ug/kg	NA	13.6	NA	NA	19.3	NA	NA	33.7	NA	NA	45.6
C20-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C21-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C26(20R)/C27(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C26(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C27(20R)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C28(20R)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C28(20S)-TAS	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C29-Hopane	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C2-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U
C2-Decalins	ug/kg	NA	12.1	NA	NA	13.5	NA	NA	13.6	NA	NA	19.2
C2-Dibenzothiophenes	ug/kg	< 0.2 U	5.64	1.01	< 0.2 U	7.90	3.31	< 0.2 U	11.4	< 0.2 U	< 0.2 U	14.5
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	19.9	3.47	< 0.5 U	26.6	10.5	< 0.5 U	53.3	< 0.5 U	< 0.5 U	60.2
C2-Naphthobenzothiophenes	ug/kg	NA	22.7	NA	NA	36.2	NA	NA	62.7	NA	NA	75.3
C30-Hopane	ug/kg	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U	NA	NA	< 0.6 U
C3-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U
C3-Decalins	ug/kg	NA	10.5	NA	NA	9.79	NA	NA	11.3	NA	NA	12.5
C3-Dibenzothiophenes	ug/kg	< 0.2 U	7.23	1.10	< 0.2 U	10.6	5.16	< 0.2 U	21.6	< 0.2 U	< 0.2 U	24.5
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	13.2	3.44	< 0.5 U	15.1	5.16	< 0.5 U	16.5	< 0.5 U	< 0.5 U	33.5
C3-Naphthobenzothiophenes	ug/kg	NA	13.4	NA	NA	25.9	NA	NA	47.6	NA	NA	60.9
C4-Benzo(b)thiophenes	ug/kg	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U	NA	NA	< 0.2 U
C4-Decalins	ug/kg	NA	9.56	NA	NA	9.48	NA	NA	12.4	NA	NA	18.2
C4-Dibenzothiophenes	ug/kg	< 0.2 U	6.02	0.731	< 0.2 U	8.93	< 0.2 U	< 0.2 U	14.3	< 0.2 U	< 0.2 U	28.8
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	20.7	3.96	< 0.5 U	13.9	5.40	< 0.5 U	17.6	< 0.5 U	< 0.5 U	22.6
C4-Naphthobenzothiophenes	ug/kg	NA	7.58	NA	NA	10.7	NA	NA	19.7	NA	NA	26.4
Carbazole	ug/kg	NA	2.70	NA	NA	2.52	NA	NA	2.44	NA	NA	3.83
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	8.09	NA	NA	11.8	NA	NA	12.6	NA	NA	15.7
Dibenzofuran	ug/kg	NA	5.36	NA	NA	5.56	NA	NA	5.59	NA	NA	8.34
Dibenzothiophene	ug/kg	0.089 J	3.08	0.561	< 0.1 U	3.19	1.71	0.166	4.01	0.131	0.09 J	4.42
Naphthalene, 2,6-dimethyl-	ug/kg	NA	6.17	NA	NA	8.03	NA	NA	8.30	NA	NA	12.4
Naphthobenzothiophene	ug/kg	NA	10.1	NA	NA	11.7	NA	NA	13.4	NA	NA	24.5
Retene	ug/kg	NA	5.81	NA	NA	2.77	NA	NA	6.78	NA	NA	7.63
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	842	NA	NA	634	NA	NA	969	NA	NA	1151
i-C15	mg/kg	NA	0.021	NA	NA	0.022	NA	NA	0.024	NA	NA	0.017
i-C16	mg/kg	NA	0.013	NA	NA	0.022	NA	NA	0.028	NA	NA	0.053
i-C18	mg/kg	NA	0.011	NA	NA	0.016	NA	NA	0.011	NA	NA	0.034
n-C10 (n-Decane)	mg/kg	NA	0.409	NA	NA	0.458	NA	NA	0.459	NA	NA	0.750
n-C11 (n-Undecane)	mg/kg	NA	0.718	NA	NA	0.764	NA	NA	0.743	NA	NA	1.511
n-C12 (n-Dodecane)	mg/kg	NA	0.299	NA	NA	0.304	NA	NA	0.283	NA	NA	0.683
n-C13 (n-Tridecane)	mg/kg	NA	0.083	NA	NA	0.077	NA	NA	0.076	NA	NA	0.194
n-C14 (n-Tetradecane)	mg/kg	NA	0.092	NA	NA	0.100	NA	NA	0.098	NA	NA	0.243
n-C15 (Pentadecane)	mg/kg	NA	0.063	NA	NA	0.062	NA	NA	0.041	NA	NA	0.163

	Location	SED-DA-033R	SED-DA-034R	SED-DA-034R	SED-DA-034R	SED-DA-035R	SED-DA-035R	SED-DA-035R	SED-DA-036R	SED-DA-036R	SED-DA-036R	SED-DA-037R
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-033R(1.0-1.5)	SED-DA-034R(0.0-0.5)	SED-DA-034R(0.5-1.0)	SED-DA-034R(1.0-1.5)	SED-DA-035R(0.0-0.5)	SED-DA-035R(0.5-1.0)	SED-DA-035R(1.0-1.5)	SED-DA-036R(0.0-0.5)	SED-DA-036R(0.5-1.0)	SED-DA-036R(1.0-1.5)	SED-DA-037R(0.0-0.5)
Chemical	**Units**											
n-C16 (n-Hexadecane)	mg/kg	NA	0.045	NA	NA	0.038	NA	NA	0.037	NA	NA	0.084
n-C17 (Heptadecane)	mg/kg	NA	0.525	NA	NA	0.247	NA	NA	0.295	NA	NA	0.687
n-C18 (Octadecane)	mg/kg	NA	0.424	NA	NA	0.460	NA	NA	0.551	NA	NA	0.909
n-C19 (Nonadecane)	mg/kg	NA	1.317	NA	NA	1.743	NA	NA	1.189	NA	NA	2.063
n-C20 (Eicosane)	mg/kg	NA	0.204	NA	NA	0.208	NA	NA	0.255	NA	NA	0.530
n-C21 (Heneicosane)	mg/kg	NA	0.399	NA	NA	0.319	NA	NA	0.521	NA	NA	0.973
n-C22 (Docosane)	mg/kg	NA	0.202	NA	NA	0.142	NA	NA	0.224	NA	NA	0.319
n-C23 (Tricosane)	mg/kg	NA	0.794	NA	NA	0.719	NA	NA	0.887	NA	NA	1.710
n-C24 (Tetracosane)	mg/kg	NA	0.245	NA	NA	0.225	NA	NA	0.259	NA	NA	0.500
n-C25 (Pentacosane)	mg/kg	NA	0.749	NA	NA	0.728	NA	NA	0.895	NA	NA	1.920
n-C26 (Hexacosane)	mg/kg	NA	0.964	NA	NA	0.243	NA	NA	0.717	NA	NA	0.633
n-C27 (Heptacosane)	mg/kg	NA	1.333	NA	NA	1.144	NA	NA	1.309	NA	NA	2.189
n-C28 (Octacosane)	mg/kg	NA	0.674	NA	NA	0.356	NA	NA	0.395	NA	NA	0.689
n-C29 (Nonacosane)	mg/kg	NA	6.267	NA	NA	2.274	NA	NA	1.658	NA	NA	2.457
n-C30 (n-Triacontane)	mg/kg	NA	1.004	NA	NA	0.427	NA	NA	0.439	NA	NA	1.050
n-C31 (Hentriacontane)	mg/kg	NA	7.053	NA	NA	2.515	NA	NA	1.151	NA	NA	2.269
n-C32 (Dotriacontane)	mg/kg	NA	0.818	NA	NA	0.154	NA	NA	0.601	NA	NA	0.760
n-C33	mg/kg	NA	6.327	NA	NA	3.650	NA	NA	1.085	NA	NA	1.581
n-C34 (Tetratriacontane)	mg/kg	NA	0.355	NA	NA	0.149	NA	NA	0.411	NA	NA	0.687
n-C35	mg/kg	NA	5.985	NA	NA	3.342	NA	NA	0.735	NA	NA	1.309
n-C36 (Hexatriacontane)	mg/kg	NA	0.566	NA	NA	0.056	NA	NA	0.334	NA	NA	0.511
n-C37	mg/kg	NA	1.271	NA	NA	0.795	NA	NA	0.459	NA	NA	1.111
n-C38 (Octatriacontane)	mg/kg	NA	0.131	NA	NA	< 0.019 U	NA	NA	0.088	NA	NA	0.083
n-C39 (Nonatriacontane)	mg/kg	NA	0.162	NA	NA	< 0.019 U	NA	NA	0.098	NA	NA	0.230
n-C40 (Tetracontane)	mg/kg	NA	< 0.019 U	NA	NA	< 0.019 U	NA	NA	< 0.019 U	NA	NA	0.019 J
n-C9 (Nonane)	mg/kg	NA	0.051	NA	NA	0.050	NA	NA	0.062	NA	NA	0.044
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	0.089	NA	NA	0.072	NA	NA	0.091	NA	NA	0.139
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	0.032	NA	NA	0.021	NA	NA	0.029	NA	NA	0.059
Total Alkanes	mg/kg	NA	39.7	NA	NA	21.9	NA	NA	16.5	NA	NA	29.2
Total Petroleum Hydrocarbons	mg/kg	NA	353	NA	NA	278	NA	NA	407	NA	NA	556
Total Resolveable Hydrocarbons	mg/kg	NA	201	NA	NA	148	NA	NA	201	NA	NA	301
Unresolved Complex Mixture	mg/kg	NA	152	NA	NA	129	NA	NA	206	NA	NA	255
VOCs												
1,1,1,2-Tetrachloroethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,1,1-Trichloroethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,1,2,2-Tetrachloroethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,1,2-Trichloroethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 11 U	< 34 U	< 13 U	< 12 U	< 40 U	< 15 U	< 11 U	< 28 U	< 11 U	< 12 U	< 44 U
1,1-Dichloroethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,1-Dichloroethene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,1-Dichloropropene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,2,3-Trichlorobenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,2,3-Trichloropropane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,2,4-Trichlorobenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,2,4-Trimethylbenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,2-Dibromo-3-Chloropropane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,2-Dibromoethane (EDB)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,2-Dichlorobenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,2-Dichloroethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,2-Dichloropropane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,3,5-Trimethylbenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,3-Dichlorobenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
1,3-Dichloropropane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
1,4-Dichlorobenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
2,2-Dichloropropane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
2-Butanone (MEK)	ug/kg	< 11 U	22 J	< 13 U	< 12 U	25 J	< 15 U	< 11 U	< 28 U	< 11 U	< 12 U	39 J
2-Chlorotoluene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
2-Phenylbutane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
4-Chlorotoluene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
4-Methyl-2-pentanone (MIBK)	ug/kg	< 11 U	< 34 U	< 13 U	< 12 U	< 40 U	< 15 U	< 11 U	< 28 U	< 11 U	< 12 U	< 44 U
Acetone	ug/kg	< 21 U	**150**	**22 J**	**14 J**	**180**	**15 J**	**13 J**	**89**	**18 J**	**15 J**	**270**
Allyl chloride	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Benzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Bromobenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
Bromochloromethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Bromodichloromethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Bromoform (Tribromomethane)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U

Location		SED-DA-033R	SED-DA-034R	SED-DA-034R	SED-DA-034R	SED-DA-035R	SED-DA-035R	SED-DA-035R	SED-DA-036R	SED-DA-036R	SED-DA-036R	SED-DA-037R
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
Sample Date		11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
Sample ID		SED-DA-033R(1.0-1.5)	SED-DA-034R(0.0-0.5)	SED-DA-034R(0.5-1.0)	SED-DA-034R(1.0-1.5)	SED-DA-035R(0.0-0.5)	SED-DA-035R(0.5-1.0)	SED-DA-035R(1.0-1.5)	SED-DA-036R(0.0-0.5)	SED-DA-036R(0.5-1.0)	SED-DA-036R(1.0-1.5)	SED-DA-037R(0.0-0.5)
Chemical	**Units**											
Bromomethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Carbon Tetrachloride	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Chlorobenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Chloroethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Chloroform	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Chloromethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
cis-1,2-Dichloroethene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
cis-1,3-Dichloropropene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Dibromochloromethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Dibromomethane	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Dichlorofluoromethane	ug/kg	< 5 U	< 17 UJ	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Diethyl ether (Ethyl ether)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Ethylbenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Hexachloro-1,3-Butadiene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
Isopropylbenzene (Cumene)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Methylene Chloride (Dichloromethane)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Methyl-tert-butyl ether	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
n-Butylbenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
n-Propylbenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
p-Isopropyltoluene (Cymene)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
Styrene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Tert-Butylbenzene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 UJ	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
Tetrachloroethene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Tetrahydrofuran	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 UJ
Toluene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
trans-1,2-Dichloroethene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
trans-1,3-Dichloropropene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Trichloroethene	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Vinyl Chloride	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U
Xylene (Total)	ug/kg	< 5 U	< 17 U	< 6 U	< 6 U	< 20 U	< 7 U	< 6 U	< 14 U	< 6 U	< 6 U	< 22 U

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-037R	SED-DA-037R	SED-DA-038R	SED-DA-038R	SED-DA-038R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-037R(0.5-1.0)	SED-DA-037R(1.0-1.5)	SED-DA-038R(0.0-0.5)	SED-DA-038R(0.5-1.0)	SED-DA-038R(1.0-1.5)
Chemical	**Units**					
Grain Size						
Sieve 3 inch, % passing	% passing	NA	NA	100	NA	NA
Sieve 1.5 inch, % passing	% passing	NA	NA	100	NA	NA
Sieve 0.75 inch, % passing	% passing	NA	NA	100	NA	NA
Sieve, 4750 micron, % passing	% passing	NA	NA	100	NA	NA
Sieve, 3350 micron, % passing	% passing	NA	NA	100	NA	NA
Sieve, 2360 micron, % passing	% passing	NA	NA	99.7	NA	NA
Sieve, 1180 micron, % passing	% passing	NA	NA	97.4	NA	NA
Sieve, 600 micron, % passing	% passing	NA	NA	90.9	NA	NA
Sieve, 300 micron, % passing	% passing	NA	NA	82.1	NA	NA
Sieve, 150 micron, % passing	% passing	NA	NA	73.0	NA	NA
Sieve, 75 micron, % passing	% passing	NA	NA	69.8	NA	NA
Sieve, 64 micron, % passing	% passing	NA	NA	68.0	NA	NA
Sieve, 50 micron, % passing	% passing	NA	NA	64.0	NA	NA
Sieve, 20 micron, % passing	% passing	NA	NA	49.0	NA	NA
Sieve, 5 micron, % passing	% passing	NA	NA	24.0	NA	NA
Sieve, 2 micron, % passing	% passing	NA	NA	18.0	NA	NA
Sieve, 1 micron, % passing	% passing	NA	NA	13.0	NA	NA
Metals						
Arsenic	mg/kg	5.02	1.74 J	**7.42 J**	7.13	3.09
Barium	mg/kg	133	117	152	153	169
Cadmium	mg/kg	< 0.733 U	< 0.632 U	< 2.00 U	< 1.08 U	< 0.707 U
Chromium	mg/kg	19.7 J	16.7 J	19.6 J	19.5 J	18.7 J
Lead	mg/kg	21.4	16.1	**37.2**	**32.8**	23.5
Mercury	mg/kg	0.0517 J	0.0409 J	0.0543 J	0.0542 J	0.0554 J
Nickel	mg/kg	**17.5**	10.7	**23.1**	**19.6**	**16.6**
Selenium	mg/kg	< 2.93 U	< 2.53 U	< 8.02 U	< 4.34 U	< 2.83 U
Silver	mg/kg	< 0.733 U	< 0.632 U	< 2.00 U	< 1.08 U	< 0.707 U
Vanadium	mg/kg	32.5	29.2	32.3	33.3	33.7
Other						
Black Carbon	%	NA	NA	0.41 J	NA	NA
Percent Moisture	%	34.4	24.6	75.3	53.9	30.7
Total Organic Carbon	%	NA	NA	4.81	NA	NA
Priority PAHs						
1-Methylnaphthalene	ug/kg	5.70	1.84	20.3	11.2	3.78
2-Methylnaphthalene	ug/kg	10.8	3.03	41.4	21.4	6.51
Acenaphthene	ug/kg	1.16	< 0.1 U	2.75	2.16	0.212
Acenaphthylene	ug/kg	1.89	< 0 UJ	17.1	4.53	0.269
Anthracene	ug/kg	< 0.1 U	0.204	24.3	6.66	0.336
Benzo(a)Anthracene	ug/kg	3.70	0.292	34.1	10.5	0.591
Benzo(a)Pyrene	ug/kg	2.57	NA R	27.3	6.60	0.377
Benzo(b)Fluoranthene	ug/kg	29.2	1.47	103	52.2	5.94
Benzo(g,h,i)Perylene	ug/kg	20.2	0.591	29.7	16.90	1.19
Benzo(j)+(k)Fluoranthene	ug/kg	3.68	0.378	24.9	7.38	0.540
Chrysene/Triphenylene	ug/kg	12.7	0.911	66.2	27.2	3.99
Dibenz(a,h)Anthracene	ug/kg	30.5	3.93	8.08	8.32	0.695
Fluoranthene	ug/kg	11.3	2.33	57.5	22.2	3.18
Fluorene	ug/kg	8.18	1.78	20.1	12.5	2.59
Indeno[1,2,3-cd]pyrene	ug/kg	32.8	3.66	23.5	17.8	1.51
Naphthalene	ug/kg	15.8	4.61	43.2	28.8	9.68
Phenanthrene	ug/kg	11.7	2.53	26.6	20.3	5.78
Pyrene	ug/kg	7.49	0.814	55.6	19.4	1.50
Forensic PAHs						
Benzo(e)Pyrene	ug/kg	8.70	< 0.2 U	48.9	19.4	1.60
C1-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	52.3	44.0	8.73
C1-Fluoranthenes/Pyrenes	ug/kg	9.80	< 0.5 U	72.5	27.3	3.22
C1-Fluorenes	ug/kg	7.02	1.79	10.0	7.04	0.922
C1-Phenanthrenes/Anthracenes	ug/kg	9.67	< 0.1 U	25.8	16.3	5.29
C2-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	54.3	26.5	3.13
C2-Fluorenes	ug/kg	8.52	< 0.4 U	29.6	23.3	< 0.4 U
C2-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	31.5	20.9	4.26
C2-Phenanthrenes/Anthracenes	ug/kg	11.0	< 0.3 U	44.6	23.3	< 0.3 U
C3-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	41.2	22.7	2.42
C3-Fluorenes	ug/kg	8.92	< 0.4 U	32.4	17.3	< 0.4 U
C3-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	17.0	14.3	3.71
C3-Phenanthrenes/Anthracenes	ug/kg	9.49	< 0.3 U	54.1	39.0	< 0.3 U
C4-Chrysenes	ug/kg	< 0.2 U	< 0.2 U	18.6	15.2	1.50

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-037R	SED-DA-037R	SED-DA-038R	SED-DA-038R	SED-DA-038R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-037R(0.5-1.0)	SED-DA-037R(1.0-1.5)	SED-DA-038R(0.0-0.5)	SED-DA-038R(0.5-1.0)	SED-DA-038R(1.0-1.5)
Chemical	**Units**					
C4-Naphthalenes	ug/kg	< 0.7 U	< 0.7 U	10.2	8.65	1.77
C4-Phenanthrenes/Anthracenes	ug/kg	8.14	< 0.3 U	40.9	43.0	< 0.3 U
Perylene	ug/kg	445 J	58.9 J	997	244 J	41.0 J
Phenanthrene, 2-methyl-	ug/kg	3.15	< 0.1 U	7.91	5.57	1.40
1,1-Biphenyl	ug/kg	NA	NA	8.93	NA	NA
18a-Oleanane	ug/kg	NA	NA	< 0.6 U	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.267	< 0.1 U	0.792	0.758	0.047 J
1-Methylfluorene	ug/kg	NA	NA	4.88	NA	NA
1-Methylphenanthrene	ug/kg	1.64	< 0.1 U	3.06	3.21	0.567
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	1.85	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.950	< 0.1 U	4.32	2.56	0.343
2-Methylanthracene	ug/kg	5.00	< 0.1 U	10.2	6.47	4.46
2-Methylfluoranthene	ug/kg	NA	NA	8.72	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	3.94	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	2.88	< 0.1 U	8.24	5.10	1.03
4-Methyldibenzothiophene(4MDT)	ug/kg	1.41	< 0.1 U	4.65	3.21	0.500
9/4-Methylphenanthrene (9MP)	ug/kg	1.64	< 0.1 U	8.70	3.79	0.370
Benzo(a)Fluoranthene	ug/kg	NA	NA	6.27	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	16.1	NA	NA
Benzothiophene	ug/kg	NA	NA	1.85	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA
C1-Decalins	ug/kg	NA	NA	25.1	NA	NA
C1-Dibenzothiophenes	ug/kg	1.89	< 0.1 U	7.53	4.71	0.642
C1-Naphthalenes	ug/kg	10.1	2.98	36.9	20.0	6.29
C1-Naphthobenzothiophenes	ug/kg	NA	NA	65.2	NA	NA
C20-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA
C21-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	< 0.6 U	NA	NA
C29-Hopane	ug/kg	NA	NA	< 0.6 U	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA
C2-Decalins	ug/kg	NA	NA	25.2	NA	NA
C2-Dibenzothiophenes	ug/kg	3.99	< 0.2 U	19.7	12.2	0.507
C2-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	65.9	30.6	2.54
C2-Naphthobenzothiophenes	ug/kg	NA	NA	121	NA	NA
C30-Hopane	ug/kg	NA	NA	< 0.6 U	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA
C3-Decalins	ug/kg	NA	NA	27.0	NA	NA
C3-Dibenzothiophenes	ug/kg	5.31	< 0.2 U	33.9	22.5	0.581
C3-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	44.8	22.0	1.11
C3-Naphthobenzothiophenes	ug/kg	NA	NA	95.4	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	< 0.2 U	NA	NA
C4-Decalins	ug/kg	NA	NA	18.4	NA	NA
C4-Dibenzothiophenes	ug/kg	3.03	< 0.2 U	36.2	19.3	< 0.2 U
C4-Fluoranthenes/Pyrenes	ug/kg	< 0.5 U	< 0.5 U	25.8	18.9	3.37
C4-Naphthobenzothiophenes	ug/kg	NA	NA	38.9	NA	NA
Carbazole	ug/kg	NA	NA	4.55	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	17.4	NA	NA
Dibenzofuran	ug/kg	NA	NA	11.2	NA	NA
Dibenzothiophene	ug/kg	4.39	0.414	6.09	4.10	0.779
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	17.11	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	20.8	NA	NA
Retene	ug/kg	NA	NA	6.89	NA	NA
TPH						
EOM (Extracted Organic Material)	mg/kg	NA	NA	1212	NA	NA
i-C15	mg/kg	NA	NA	0.012 J	NA	NA
i-C16	mg/kg	NA	NA	0.067	NA	NA
i-C18	mg/kg	NA	NA	0.034	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.749	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	1.492	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.668	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.186	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.233	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.088	NA	NA

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Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-037R	SED-DA-037R	SED-DA-038R	SED-DA-038R	SED-DA-038R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-037R(0.5-1.0)	SED-DA-037R(1.0-1.5)	SED-DA-038R(0.0-0.5)	SED-DA-038R(0.5-1.0)	SED-DA-038R(1.0-1.5)
Chemical	**Units**					
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.082	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.444	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	0.785	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	2.094	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.611	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	1.138	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.325	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	1.454	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.421	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	1.514	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.591	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	1.707	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.606	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	1.863	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.618	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	3.473	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.311	NA	NA
n-C33	mg/kg	NA	NA	4.865	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	0.287	NA	NA
n-C35	mg/kg	NA	NA	4.195	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.216	NA	NA
n-C37	mg/kg	NA	NA	1.173	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.108	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.287	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	0.108	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	0.052	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.115	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.031	NA	NA
Total Alkanes	mg/kg	NA	NA	33.0	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	556	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	227	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	329	NA	NA
VOCs						
1,1,1,2-Tetrachloroethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,1,1-Trichloroethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,1,2,2-Tetrachloroethane	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,1,2-Trichloroethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,1,2-Trichlorotrifluoroethane	ug/kg	< 15 U	< 13 U	< 57 U	< 22 U	< 15 U
1,1-Dichloroethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,1-Dichloroethene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,1-Dichloropropene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,2,3-Trichlorobenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,2,3-Trichloropropane	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,2,4-Trichlorobenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,2,4-Trimethylbenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,2-Dibromo-3-Chloropropane	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,2-Dibromoethane (EDB)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,2-Dichlorobenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,2-Dichloroethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,2-Dichloropropane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,3,5-Trimethylbenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,3-Dichlorobenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
1,3-Dichloropropane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
1,4-Dichlorobenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
2,2-Dichloropropane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
2-Butanone (MEK)	ug/kg	< 15 U	< 13 U	24 J	< 22 U	< 15 U
2-Chlorotoluene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
2-Phenylbutane	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
4-Chlorotoluene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
4-Methyl-2-pentanone (MIBK)	ug/kg	< 15 U	< 13 U	< 57 U	< 22 U	< 15 U
Acetone	ug/kg	**28 J**	**16 J**	**200**	**54**	**31**
Allyl chloride	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Benzene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Bromobenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
Bromochloromethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Bromodichloromethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Bromoform (Tribromomethane)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U

	Location	SED-DA-037R	SED-DA-037R	SED-DA-038R	SED-DA-038R	SED-DA-038R
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-037R(0.5-1.0)	SED-DA-037R(1.0-1.5)	SED-DA-038R(0.0-0.5)	SED-DA-038R(0.5-1.0)	SED-DA-038R(1.0-1.5)
Chemical	**Units**					
Bromomethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Carbon Tetrachloride	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Chlorobenzene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Chloroethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Chloroform	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Chloromethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
cis-1,2-Dichloroethene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
cis-1,3-Dichloropropene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Dibromochloromethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Dibromomethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Dichlorofluoromethane	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Diethyl ether (Ethyl ether)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Ethylbenzene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Hexachloro-1,3-Butadiene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
Isopropylbenzene (Cumene)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Methylene Chloride (Dichloromethane)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Methyl-tert-butyl ether	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
n-Butylbenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
n-Propylbenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
p-Isopropyltoluene (Cymene)	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
Styrene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Tert-Butylbenzene	ug/kg	< 7 U	< 6 U	< 29 UJ	< 11 U	< 7 U
Tetrachloroethene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Tetrahydrofuran	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Toluene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
trans-1,2-Dichloroethene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
trans-1,3-Dichloropropene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Trichloroethene	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Trichlorofluoromethane (CFC-11)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Vinyl Chloride	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U
Xylene (Total)	ug/kg	< 7 U	< 6 U	< 29 U	< 11 U	< 7 U

Appendix F - Analytical Data Tables
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

1. As requested by ADEQ, the six Lake Conway sediment locations were re-sampled on November 19 and 20, 2013 (SED-DA-033R through SED-DA-038R).

% = percent
< = less than the limit of quantitation
ADEQ = Arkansas Department of Environmenatal Quality
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
R = The sample results are rejected
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

ARCADIS

Daily Surface Water Sampling Tables

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Summary

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	WS-001		WS-002	WS-003	WS-004		WS-005	WS-006		WS-007		WS-008	WS-009	WS-010		WS-011		WS-012		WS-013		WS-014		WS-015		WS-016		WS-017		WS-018		WS-019	WS-020	WS-021	WS-BKG-001	WS-BKG-002
Sample Date	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Shallow
3/29/2013	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
3/30/2013	X	NS	X	X	X	NS	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
3/31/2013	X	NS	X	X	X	NS	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/1/2013	X	NS	X	X	X	NS	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/2/2013	X	NS	X	X	X	NS	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/3/2013	X	NS	X	X	X	NS	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/4/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/5/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/6/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/7/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/8/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/9/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/10/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/11/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/12/2013	X	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/13/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/14/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/15/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/16/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	X	NS	NS	X	NS
4/17/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	X	X	NS	NS	X	NS	NS
4/18/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS	NS	NS
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4/23/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
4/24/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	X	NS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	X	NS
4/25/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	NS
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5/13/2013	X	X	X	X	X	X	NS	X	X	X	X	X	NS	X	NS	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	X	NS	NS	NS	X
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5/22/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
5/23/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
5/24/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
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5/26/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
5/27/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
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6/1/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
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6/3/2013	X	X	X	X	X	X	NS	X	X	X	X	X	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	X	NS	NS	NS	X
6/4/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/5/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/6/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/7/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/8/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/9/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/10/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/11/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Summary

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	WS-001		WS-002	WS-003	WS-004		WS-005	WS-006		WS-007		WS-008	WS-009	WS-010		WS-011		WS-012		WS-013		WS-014		WS-015		WS-016		WS-017		WS-018		WS-019	WS-020	WS-021	WS-BKG-001	WS-BKG-002
Sample Date	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Shallow
6/12/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X
6/13/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/14/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/15/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/16/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/17/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/18/2013	X	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/19/2013	X	X	X	X	X	X	NS	X	X	X	X	X	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS
6/20/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/21/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/22/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/23/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/24/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/25/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/26/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/27/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/28/2013	X	X	X	X	X	X	X	X	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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7/1/2013	X	X	X	X	X	X	NS	X	X	X	X	NS	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS
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7/16/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	X	NS	X	NS	NS	NS	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	NS	DRY
7/17/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	X	NS	X	NS	NS	NS	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	NS	DRY
7/18/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	X	NS	X	NS	NS	NS	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	NS	DRY
7/19/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	X	NS	X	NS	NS	NS	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	NS	DRY
7/20/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	X	NS	X	NS	NS	NS	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	NS	DRY
7/21/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	X	NS	X	NS	NS	NS	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	NS	DRY
7/22/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	X	NS	X	NS	NS	NS	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	NS	DRY
7/23/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
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7/25/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
7/26/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
7/27/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
7/28/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
7/29/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
7/30/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
7/31/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/1/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/2/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/3/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
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8/5/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/6/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/7/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/8/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/9/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/10/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/11/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	X	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	X
8/12/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	X	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	X
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8/14/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	X	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	X
8/15/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	X	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	X
8/16/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	X
8/17/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	X
8/18/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/19/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/20/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/21/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/22/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/23/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
8/24/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	NS	DRY
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Appendix F - Analytical Data Tables
Daily Surface Water Sampling Summary

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	WS-001		WS-002	WS-003	WS-004		WS-005	WS-006		WS-007		WS-008	WS-009	WS-010		WS-011		WS-012		WS-013		WS-014		WS-015		WS-016		WS-017		WS-018		WS-019	WS-020	WS-021	WS-BKG-001	WS-BKG-002
Sample Date	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Shallow
8/26/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
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8/29/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
8/30/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
8/31/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/1/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/2/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/3/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/4/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/5/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/6/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/7/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/8/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
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9/10/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/11/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/12/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
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9/14/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
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9/16/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/17/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
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9/19/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
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9/21/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/22/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/23/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/24/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/25/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/26/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/27/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/28/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/29/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
9/30/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/1/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/2/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/3/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/4/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/5/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/6/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/7/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/8/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/9/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/10/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/11/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/12/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/13/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/14/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/15/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/16/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/17/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/18/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/19/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/20/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/21/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/22/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/23/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/24/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/25/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/26/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/27/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/28/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/29/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	NS	NS	NS	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/30/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
10/31/2013	NS	X	X	X	NS	NS	X	NS	X	NS	X	DRY	NS	X	X	X	X	X	X	NS	NS	X	X	NS	NS	NS	NS	NS	NS	X	NS	NS	NS	NS	NS	DRY
Total Samples	108	211	216	216	107	102	208	102	210	102	211	74	1	118	103	117	109	118	110	3	3	118	110	3	3	3	3	3	3	120	4	9	1	1	35	42

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		3/29/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/4/2013	4/5/2013	4/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		KLL329SW1	RRS330SW1	RRS331SW1	RRS41SW1	RRS42SW1	RRS43SW1	RRS44SW1	RRS44SW1B	WS-001-04052013(SURFACE)	WS-001-04052013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	69.3	69.3
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	9.54	9.54
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	6	6
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	14.13	14.13
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	8.17	8.17
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0168	0.0307	0.0456	0.0191	NA	NA	0.0182	0.0227	0.0181	0.0168
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	3.01	3.01
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0150 U	0.0011 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	1.52	1.53
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0070 U	< 0.0070 U	< 0.0070 U	< 0.0070 U	NA	NA	< 0.0070 U	< 0.0070 U	< 0.0050 UB	< 0.0050 UB
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	NA	NA	NA	NA	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	13.8	13.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.050 U	< 0.049 U
2-Methylnaphthalene - Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.050 U	< 0.049 U
Acenaphthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Acenaphthylene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Anthracene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Benzo(a)Anthracene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Benzo(a)Pyrene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Chrysene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Fluoranthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Fluorene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
Naphthalene - Total	ug/l	< 0.50 U	< 0.53 U	< 0.55 U	< 0.50 U	< 0.54 U	< 0.50 U	< 0.53 U	< 0.50 U	< 0.050 U	< 0.049 U
Phenanthrene - Total	ug/l	< 0.50 U	< 0.53 U	< 0.55 U	< 0.50 U	< 0.54 U	< 0.50 U	< 0.53 U	< 0.50 U	< 0.050 U	< 0.049 U
Pyrene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.050 U	< 0.049 U
TPH											
Diesel C10-C28	ug/L	< 500 U	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	< 200 U	< 200 U	< 200 U	< 200 U	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	< 500 U	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		3/29/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/4/2013	4/5/2013	4/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		KLL329SW1	RRS330SW1	RRS331SW1	RRS41SW1	RRS42SW1	RRS43SW1	RRS44SW1	RRS44SW1B	WS-001-04052013(SURFACE)	WS-001-04052013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA
1,2-Dichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U
Benzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	7	5.8	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA
Carbon Tetrachloride	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA
n-Butylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA
Styrene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U
Toluene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	6.5	5.2	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/6/2013	4/6/2013	4/7/2013	4/7/2013	4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/10/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001-04062013(SURFACE)	WS-001-04062013(0.5-1.0)	WS-001-04072013(SURFACE)	WS-001-04072013(0.5-1.0)	WS-001(SURFACE)040813	WS-001(0.5-1.0)040813	WS-001(SURFACE)040913	WS-001(0.5-1.0)040913	WS-001(SURFACE)041013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	55	55	55	55	53	53	53	53	53
Dissolved Oxygen	mg/l	6.8	6.8	4.12	4.12	4.03	4.03	4.33	4.33	4.51
pH	SU	7.49	7.49	6.61	6.61	6.45	6.45	6.34	6.34	6.61
Temperature	deg C	13.34	13.34	17.3	17.3	16.86	16.86	19.38	19.38	20.22
Turbidity	NTU	5.3	5.3	9.4	9.4	6.4	6.4	8.7	8.7	10.3
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0173	0.0183	0.0246	0.0199	0.0196	0.0203	0.0201	0.0206	0.0184
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	2.82	2.84	3.56	3.44	3.55	3.39	3.63	3.58	3.49
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0018 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0018 J	0.0017 J	0.0015 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.34	1.35	1.61	1.54	1.56	1.55	1.59	1.58	1.54
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0012 J	< 0.0100 U	0.0026 J	0.0018 J	0.0021 J	0.0012 J	0.0027 J	0.0016 J	< 0.0100 UB
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0021 J	< 0.0050 U	0.0021 J	< 0.0050 U	0.0013 J	0.0018 J	0.0016 J
Other										
Hardness (as CaCO3)	mg/l	12.6	12.7	15.6	14.9	15.3	14.9	15.6	15.5	15.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	0.012 J	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	0.015 J	< 0.057 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	0.012 J	< 0.057 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	0.019 J	< 0.057 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	0.016 J	< 0.057 U	< 0.051 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/6/2013	4/6/2013	4/7/2013	4/7/2013	4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/10/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001-04062013(SURFACE)	WS-001-04062013(0.5-1.0)	WS-001-04072013(SURFACE)	WS-001-04072013(0.5-1.0)	WS-001(SURFACE)040813	WS-001(0.5-1.0)040813	WS-001(SURFACE)040913	WS-001(0.5-1.0)040913	WS-001(SURFACE)041013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013	4/14/2013	4/15/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)041013	WS-001(SURFACE)041113	WS-001(0.5-1.0)041113	WS-001(SURFACE)041213	WS-001(0.5-1.0)041213	WS-001(SURFACE)041313	WS-001(0.5-1.0)041313	WS-001(SURFACE)041413	WS-001(0.5-1.0)041413	WS-001(SURFACE)041513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	53	49	49	49	49	50	50	54	54	77
Dissolved Oxygen	mg/l	4.51	4.64	4.64	3.65	3.65	4.24	4.24	4.16	4.16	9.69
pH	SU	6.61	6.67	6.67	6.75	6.75	6.79	6.79	6.89	6.89	6.55
Temperature	deg C	20.22	17.44	17.44	18.24	18.24	17.76	17.76	19.59	19.59	19.41
Turbidity	NTU	10.3	17.5	17.5	63	63	26.7	26.7	19.4	19.4	3.8
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0197	0.0222	0.0242	0.0605	0.0543	0.0336	0.0337	0.0297	0.0296	0.0231
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.39	3.28	3.27	3.49	3.51	3.27	3.25	3.34	3.30	3.40
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0065 J	0.0052 J	0.0033 J	0.0034 J	0.0026 J	0.0020 J	0.0013 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.50	1.58 J	1.55 J	1.93	1.86	1.64	1.61	1.59 J	1.58 J	1.65
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 UB	< 0.0100 U	0.0013 J	0.0041 J	0.0039 J	0.0026 J	0.0029 J	0.0026 J	0.0025 J	0.0014 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0026 J	< 0.0050 U	0.0017 J	0.0061	0.0086	0.0040 J	0.0038 J	0.0029 J	0.0023 J	0.0017 J
Other											
Hardness (as CaCO3)	mg/l	14.6	14.7	14.5	16.6	16.4	14.9	14.7	14.9	14.7	15.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	0.067	0.036 J	0.051 J	0.036 J	< 0.051 U	< 0.051 U	0.035 J
Phenanthrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.055 U	0.016 J	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013	4/14/2013	4/15/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)041013	WS-001(SURFACE)041113	WS-001(0.5-1.0)041113	WS-001(SURFACE)041213	WS-001(0.5-1.0)041213	WS-001(SURFACE)041313	WS-001(0.5-1.0)041313	WS-001(SURFACE)041413	WS-001(0.5-1.0)041413	WS-001(SURFACE)041513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/15/2013	4/16/2013	4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)041513	WS-001(SURFACE)041613	WS-001(0.5-1.0)041613	WS-001(SURFACE)041713	WS-001(0.5-1.0)041713	WS-001(SURFACE)041813	WS-001(0.5-1.0)041813	WS-001(SURFACE)041913	WS-001(0.5-1.0)041913	WS-001(SURFACE)042013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	77	66	66	55	55	50	50	51	51	55
Dissolved Oxygen	mg/l	9.69	2.67	2.67	2.55	2.55	4.52	4.52	5.05	5.05	4.18
pH	SU	6.55	5.71	5.71	5.96	5.96	6.1	6.1	6.56	6.56	6.85
Temperature	deg C	19.41	19.29	19.29	22.84	22.84	22.18	22.18	28.28	28.28	18.72
Turbidity	NTU	3.8	162.7	162.7	82	82	104	104	124	124	43.8
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0225	0.0715	0.0707	0.0286	0.0339	0.0520	0.173	0.0532	0.0569	0.0467 J
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB
Calcium - Total	mg/l	3.40	3.58	3.71	3.45	3.46	3.46	7.01	3.80	3.62	3.77 J
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0019 J	0.0088 J	0.0082 J	0.0022 J	0.0025 J	0.0062 J	0.0213	0.0046 J	0.0052 J	0.0051 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0087 J	0.0083 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0181	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.63	2.27	2.23	1.68	1.72	1.99	3.93	2.04	1.98	2.02
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0024 J	0.0070 J	0.0076 J	0.0020 J	0.0032 J	0.0037 J	0.0166	0.0046 J	0.0053 J	0.0045 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0021 J	0.0128	0.0125	0.0020 J	0.0030 J	0.0084	0.0322	0.0048 J	0.0065	0.0080
Other											
Hardness (as CaCO3)	mg/l	15.2	18.3	18.4	15.5	15.7	16.8	33.7	17.9	17.2	17.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.011 J	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.012 J	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.031 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	0.033 J
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.017 J	< 0.052 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/15/2013	4/16/2013	4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)041513	WS-001(SURFACE)041613	WS-001(0.5-1.0)041613	WS-001(SURFACE)041713	WS-001(0.5-1.0)041713	WS-001(SURFACE)041813	WS-001(0.5-1.0)041813	WS-001(SURFACE)041913	WS-001(0.5-1.0)041913	WS-001(SURFACE)042013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.8	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	0.4 J	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/20/2013	4/21/2013	4/21/2013	4/22/2013	4/22/2013	4/23/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)042013	WS-001(SURFACE)042113	WS-001(0.5-1.0)042113	WS-001(SURFACE)042213	WS-001(0.5-1.0)042213	WS-001(SURFACE)042313	WS-001(0.5-1.0)0042313	WS-001(SURFACE)042413	WS-001(0.5-1.0)042413	WS-001(SURFACE)042513
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	55	53	53	189	189	182	182	175	175	176
Dissolved Oxygen	mg/l	4.18	5.38	5.38	4.99	4.99	5.96	5.96	6.73	6.73	7.46
pH	SU	6.85	7.08	7.08	5.97	5.97	5.74	5.74	7.01	7.01	8.5
Temperature	deg C	18.72	20.16	20.16	22.03	22.03	21.34	21.34	21.13	21.13	21.67
Turbidity	NTU	43.8	37.4	37.4	26.7	26.7	30.4	30.4	27	27	53.5
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0076 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0507 J	0.0427	0.0390	0.0470	0.0716	0.0304	0.0561	0.0265	0.0238	0.115
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.74 J	3.45	3.43	3.82	4.29	3.69 J	3.57 J	3.27	3.34	3.51
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0048 J	0.0036 J	0.0026 J	0.0048 J	0.0045 J	0.0013 J	0.0014 J	0.0017 J	< 0.0150 U	0.0031 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0058 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0066 J
Magnesium - Total	mg/l	2.06	1.96	1.90	1.97	2.15	1.72	1.74	1.61	1.59	1.98
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0043 J	0.0038 J	0.0034 J	0.0038 J	0.0059 J	0.0029 J	0.0026 J	0.0027 J	0.0013 J	0.0036 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0079	0.0069	0.0061	0.0071	0.0082	0.0029 J	0.0030 J	0.0025 J	< 0.0050 U	0.0044 J
Other											
Hardness (as CaCO3)	mg/l	17.8	16.7	16.4	17.6	19.6	16.3	16.1	14.8	14.9	16.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.014 J	< 0.052 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.017 J	< 0.052 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.020 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.017 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.015 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 UJ
Naphthalene - Total	ug/l	0.060	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.019 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	1.4 J	< 5.0 U	NA	NA	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/20/2013	4/21/2013	4/21/2013	4/22/2013	4/22/2013	4/23/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)042013	WS-001(SURFACE)042113	WS-001(0.5-1.0)042113	WS-001(SURFACE)042213	WS-001(0.5-1.0)042213	WS-001(SURFACE)042313	WS-001(0.5-1.0)0042313	WS-001(SURFACE)042413	WS-001(0.5-1.0)042413	WS-001(SURFACE)042513
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/25/2013	4/26/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013	4/28/2013	4/29/2013	4/29/2013	4/30/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)042513	WS-001(SURFACE)042613	WS-001(0.5-1.0)042613	WS-001(SURFACE)042713	WS-001(0.5-1.0)042713	WS-001(SURFACE)042813	WS-001(0.5-1.0)042813	WS-001(SURFACE)042913	WS-001(0.5-1.0)042913	WS-001(SURFACE)043013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	176	182	182	190	190	195	195	193	193	52
Dissolved Oxygen	mg/l	7.46	6.49	6.49	5.33	5.33	4.54	4.54	5.13	5.13	7.37
pH	SU	8.5	6.87	6.87	6.79	6.79	6.43	6.43	6.85	6.85	7.45
Temperature	deg C	21.67	21.29	21.29	19.08	19.08	19	19	22.61	22.61	24.95
Turbidity	NTU	53.5	25.5	25.5	25.8	25.8	36.6	36.6	29.6	29.6	28.6
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0998	0.0270	0.0484	0.0394	0.0300	0.0376	0.0342	0.0292	0.0324	0.0288
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.77	3.28	3.64	3.54	3.29	3.35	3.36	3.31	3.36	3.84
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0028 J	0.0018 J	0.0049 J	0.0019 J	0.0013 J	0.0023 J	0.0024 J	0.0019 J	0.0032 J	0.0023 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0068 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0065 J	0.0058 J
Magnesium - Total	mg/l	1.94	1.64	1.90	1.73	1.65	1.75	1.74	1.70	1.81	1.68
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0034 J	0.0021 J	0.0051 J	0.0022 J	0.0017 J	0.0021 J	0.0028 J	0.0025 J	0.0026 J	0.0024 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0032 J	0.0032 J	0.0069	0.0034 J	0.0026 J	0.0041 J	0.0043 J	0.0037 J	0.0056	0.0043 J
Other											
Hardness (as CaCO3)	mg/l	17.4	15.0	16.9	16.0	15.0	15.6	15.6	15.3	15.8	16.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	0.014 J	0.011 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.012 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	0.017 J	0.013 J
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.015 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/25/2013	4/26/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013	4/28/2013	4/29/2013	4/29/2013	4/30/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)042513	WS-001(SURFACE)042613	WS-001(0.5-1.0)042613	WS-001(SURFACE)042713	WS-001(0.5-1.0)042713	WS-001(SURFACE)042813	WS-001(0.5-1.0)042813	WS-001(SURFACE)042913	WS-001(0.5-1.0)042913	WS-001(SURFACE)043013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/30/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/3/2013	5/4/2013	5/4/2013	5/5/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)043013	WS-001(SURFACE)050113	WS-001(0.5-1.0)050113	WS-001(SURFACE)050213	WS-001(0.5-1.0)050213	WS-001(SURFACE)050313	WS-001(0.5-1.0)050313	WS-001(SURFACE)050413	WS-001(0.5-1.0)050413	WS-001(SURFACE)050513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	52	51	51	60	60	54	54	56	56	72
Dissolved Oxygen	mg/l	7.37	8.02	8.02	NA	NA	5.59	5.59	5.71	5.71	6.4
pH	SU	7.45	8.06	8.06	7.88	7.88	7.32	7.32	7.13	7.13	7.36
Temperature	deg C	24.95	24.67	24.67	24.42	24.42	18.87	18.87	16.09	16.09	17.52
Turbidity	NTU	28.6	47.6	47.6	83	83	210	210	109	109	49.6
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0276	0.0231	0.153	0.0446	0.0442	0.0673	0.0664	0.0529	0.0590	0.0392
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.60	3.30	4.30	3.54	3.51	3.86	3.88	3.70	3.75	3.49
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0018 J	0.0011 J	0.0020 J	0.0058 J	0.0045 J	0.0066 J	0.0066 J	0.0055 J	0.0071 J	0.0039 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0055 J	< 0.0150 U	0.0065 J	0.0061 J	0.0109 J	0.0112 J	< 0.0150 U
Magnesium - Total	mg/l	1.74	1.60	2.08	1.99 J	1.94 J	2.29	2.28	2.17	2.29	1.82
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0021 J	0.0013 J	0.0022 J	0.0051 J	0.0039 J	0.0060 J	0.0062 J	0.0043 J	0.0043 J	0.0030 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0033 J	0.0020 J	0.0027 J	0.0074	0.0069	0.0113	0.0110	0.0087	0.0111	0.0054
Other											
Hardness (as CaCO3)	mg/l	16.1	14.8	19.3	17.0	16.8	19.0	19.1	18.2	18.8	16.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	0.022 J	< 0.057 U	< 0.055 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	0.015 J	< 0.057 U	< 0.055 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	0.041 J	< 0.057 U	< 0.055 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	0.023 J	< 0.057 U	< 0.055 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.055 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.051 U	0.037 J	< 0.057 U	< 0.055 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		4/30/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/3/2013	5/4/2013	5/4/2013	5/5/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)043013	WS-001(SURFACE)050113	WS-001(0.5-1.0)050113	WS-001(SURFACE)050213	WS-001(0.5-1.0)050213	WS-001(SURFACE)050313	WS-001(0.5-1.0)050313	WS-001(SURFACE)050413	WS-001(0.5-1.0)050413	WS-001(SURFACE)050513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013	5/9/2013	5/10/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)050513	WS-001(SURFACE)050613	WS-001(0.5-1.0)050613	WS-001(SURFACE)050713	WS-001(0.5-1.0)050713	WS-001(SURFACE)050813	WS-001(0.5-1.0)050813	WS-001(SURFACE)050913	WS-001(0.5-1.0)050913	WS-001(SURFACE)051013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	72	52	52	52	52	57	57	64	64	58
Dissolved Oxygen	mg/l	6.4	13.86 *	13.86 *	15.17	15.17	7.76	7.76	3.79	3.79	8.71
pH	SU	7.36	6.72	6.72	6.99	6.99	6.77	6.77	6.15	6.15	8.46
Temperature	deg C	17.52	19.27	19.27	22.85	22.85	23.38	23.38	22.73	22.73	25.22
Turbidity	NTU	49.6	81	81	114	114	50.4	50.4	117	117	22
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0390	0.0454	0.0471	0.0605	0.0850	0.0275	0.0300	0.0761	0.0727	0.0240
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.39	3.63	3.63	3.52	3.81	3.48	3.48	3.94	4.12	3.39
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0034 J	0.0054 J	0.0051 J	0.0086 J	0.0090 J	0.0019 J	0.0018 J	0.0103 J	0.0104 J	0.0021 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0101 J	0.0092 J	< 0.0150 U	0.0053 J	< 0.0150 U	< 0.0150 U	0.0138 J	0.0148 J	< 0.0150 U
Magnesium - Total	mg/l	1.81	2.01	2.06	2.15	2.34	1.80 J	1.84 J	2.63	2.62	1.74
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0036 J	0.0035 J	0.0043 J	0.0055 J	0.0065 J	0.0034 J	0.0027 J	0.0064 J	0.0073 J	0.0020 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0049 J	0.0070	0.0079	0.0127	0.0145	0.0034 J	0.0038 J	0.0148	0.0149	0.0023 J
Other											
Hardness (as CaCO3)	mg/l	15.9	17.3	17.6	17.7	19.2	16.1	16.3	20.7	21.1	15.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	0.044 J	< 0.052 U	0.060
Phenanthrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.056 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	< 5.0 UB	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013	5/9/2013	5/10/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)050513	WS-001(SURFACE)050613	WS-001(0.5-1.0)050613	WS-001(SURFACE)050713	WS-001(0.5-1.0)050713	WS-001(SURFACE)050813	WS-001(0.5-1.0)050813	WS-001(SURFACE)050913	WS-001(0.5-1.0)050913	WS-001(SURFACE)051013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/10/2013	5/11/2013	5/11/2013	5/12/2013	5/12/2013	5/13/2013	5/13/2013	5/14/2013	5/14/2013	5/15/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)051013	WS-001(SURFACE)051113	WS-001(0.5-1.0)051113	WS-001(SURFACE)051213	WS-001(0.5-1.0)051213	WS-001(SURFACE)051313	WS-001(0.5-1.0)051313	WS-001(SURFACE)051413	WS-001(0.5-1.0)051413	WS-001(SURFACE)051513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	58	58	58	60	60	63	63	63	63	64
Dissolved Oxygen	mg/l	8.71	6.74	6.74	6.35	6.35	2.69	2.69	5.12	5.12	4.2
pH	SU	8.46	7.02	7.02	6.61	6.61	6.34	6.34	6.11	6.11	7.03
Temperature	deg C	25.22	22.69	22.69	22.93	22.93	22.99	22.99	23.81	23.81	23.51
Turbidity	NTU	22	43.9	43.9	19.5	19.5	8.7	8.7	21.9	21.9	25.6
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0318	0.0299	0.0430	0.0244	0.0249	0.0425	0.0663	0.0235	0.0228	0.0263
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.48	3.53	3.71	3.59	3.61	3.68	3.86	3.61	3.60	3.61
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0023 J	0.0015 J	0.0029 J	< 0.0150 U	< 0.0150 U	0.0037 J	0.0042 J	0.0016 J	0.0014 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0071 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0107 J	0.0152	0.0073 J	0.0068 J	< 0.0150 U
Magnesium - Total	mg/l	1.84	1.81	1.89	1.78	1.78	1.94	2.04	1.81 J	1.79 J	1.76
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0031 J	0.0021 J	0.0035 J	0.0014 J	0.0019 J	0.0039 J	0.0049 J	0.0028 J	0.0021 J	0.0018 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0038 J	0.0032 J	0.0046 J	0.0021 J	0.0023 J	0.0054	0.0065	0.0022 J	0.0014 J	0.0023 J
Other											
Hardness (as CaCO3)	mg/l	16.3	16.3	17.0	16.3	16.3	17.2	18.0	16.5	16.4	16.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	0.015 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	0.058	0.093	0.088	0.098	0.093	0.064	0.082	< 0.050 U	< 0.051 U	0.23
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/10/2013	5/11/2013	5/11/2013	5/12/2013	5/12/2013	5/13/2013	5/13/2013	5/14/2013	5/14/2013	5/15/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)051013	WS-001(SURFACE)051113	WS-001(0.5-1.0)051113	WS-001(SURFACE)051213	WS-001(0.5-1.0)051213	WS-001(SURFACE)051313	WS-001(0.5-1.0)051313	WS-001(SURFACE)051413	WS-001(0.5-1.0)051413	WS-001(SURFACE)051513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/15/2013	5/16/2013	5/16/2013	5/17/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013	5/19/2013	5/20/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)051513	WS-001(SURFACE)051613	WS-001(0.5-1.0)051613	WS-001(SURFACE)051713	WS-001(0.5-1.0)051713	WS-001(SURFACE)051813	WS-001(0.5-1.0)051813	WS-001(SURFACE)051913	WS-001(0.5-1.0)051913	WS-001(SURFACE)052013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	64	54	54	57	57	59	59	60	60	62
Dissolved Oxygen	mg/l	4.2	3.85	3.85	5.4	5.4	4.21	4.21	2.81	2.81	1.92
pH	SU	7.03	6.23	6.23	6.42	6.42	6.69	6.69	6.7	6.7	6.42
Temperature	deg C	23.51	22.61	22.61	24.81	24.81	26.59	26.59	25.88	25.88	25.4
Turbidity	NTU	25.6	54.3	54.3	28.4	28.4	38.9	38.9	79.8	79.8	49.1
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0261	0.0214	0.0247	0.0205	0.0210	0.0270	0.0297	0.0404	0.0528	0.0397
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.54	3.69	3.65	3.93	3.60	3.75	3.86	4.22	4.36	4.29
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0015 J	< 0.0150 U	0.0014 J	0.0016 J	< 0.0150 U	0.0019 J	0.0018 J	0.0021 J	0.0049 J	0.0028 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.72	1.76	1.80	1.82	1.77	1.89	1.90	2.06	2.32	2.09
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0023 J	0.0016 J	0.0021 J	< 0.0100 U	0.0013 J	0.0025 J	0.0025 J	0.0032 J	0.0044 J	0.0031 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0013 J	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0018 J	0.0018 J	0.0018 J	0.0017 J	0.0014 J	0.0027 J	0.0026 J	0.0038 J	0.0070	0.0037 J
Other											
Hardness (as CaCO3)	mg/l	15.9	16.5	16.5	17.3	16.3	17.2	17.5	19.0	20.5	19.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.21	0.10	0.083	0.079	0.036 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.064
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/15/2013	5/16/2013	5/16/2013	5/17/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013	5/19/2013	5/20/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)051513	WS-001(SURFACE)051613	WS-001(0.5-1.0)051613	WS-001(SURFACE)051713	WS-001(0.5-1.0)051713	WS-001(SURFACE)051813	WS-001(0.5-1.0)051813	WS-001(SURFACE)051913	WS-001(0.5-1.0)051913	WS-001(SURFACE)052013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/20/2013	5/21/2013	5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)052013	WS-001(SURFACE)052113	WS-001(0.5-1.0)052113	WS-001(SURFACE)052213	WS-001(0.5-1.0)052213	WS-001(SURFACE)052313	WS-001(0.5-1.0)052313	WS-001(SURFACE)052413	WS-001(0.5-1.0)052413	WS-001(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	62	59	59	58	58	55	55	58	58	60
Dissolved Oxygen	mg/l	1.92	3.53	3.53	4.53	4.53	4.5	4.5	5.8	5.8	4.04
pH	SU	6.42	6.8	6.8	6.97	6.97	7.2	7.2	6.68	6.68	7.21
Temperature	deg C	25.4	24.72	24.72	24.18	24.18	25.13	25.13	24.91	24.91	25.31
Turbidity	NTU	49.1	39.6	39.6	78.7	78.7	57.2	57.2	127	127	123
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0969	0.0259	0.0264	0.0351	0.0338	0.0378 J	0.0412 J	0.0440	0.0442	0.0474
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.57	3.81	3.88	3.86	3.88	3.94	3.75	4.03	4.07	4.09
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0086 J	0.0015 J	0.0017 J	0.0025 J	0.0017 J	0.0034 J	0.0039 J	0.0041 J	0.0038 J	0.0044 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0120 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0124 J
Magnesium - Total	mg/l	2.56	1.86	1.89	1.94 J	1.90 J	2.05	2.05	2.13 J	2.13 J	2.15
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0081 J	0.0023 J	0.0023 J	0.0028 J	0.0024 J	0.0043 J	0.0042 J	0.0036 J	0.0038 J	0.0037 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0117	0.0015 J	0.0024 J	0.0038 J	0.0031 J	0.0044 J	0.0056	0.0061	0.0065	0.0060
Other											
Hardness (as CaCO3)	mg/l	21.9	17.2	17.5	17.6	17.5	18.3	17.8	18.8	18.9	19.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.011 J
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.013 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.013 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.028 J
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.066	0.057	0.053	< 0.050 U	< 0.051 U	0.079	0.073	< 0.051 UJ	< 0.051 U	0.051 J
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.019 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/20/2013	5/21/2013	5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)052013	WS-001(SURFACE)052113	WS-001(0.5-1.0)052113	WS-001(SURFACE)052213	WS-001(0.5-1.0)052213	WS-001(SURFACE)052313	WS-001(0.5-1.0)052313	WS-001(SURFACE)052413	WS-001(0.5-1.0)052413	WS-001(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/25/2013	5/26/2013	5/26/2013	5/27/2013	5/27/2013	5/28/2013	5/28/2013	5/29/2013	5/29/2013	5/30/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)052513	WS-001(SURFACE)052613	WS-001(0.5-1.0)052613	WS-001(SURFACE)052713	WS-001(0.5-1.0)052713	WS-001(SURFACE)052813	WS-001(0.5-1.0)052813	WS-001(SURFACE)052913	WS-001(0.5-1.0)052913	WS-001(SURFACE)053013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	60	62	62	60	60	64	64	62	62	64
Dissolved Oxygen	mg/l	4.04	3.97	3.97	4.89	4.89	3.35	3.35	3.18	3.18	3.78
pH	SU	7.21	6.68	6.68	7.17	7.17	6.99	6.99	6.86	6.86	6.56
Temperature	deg C	25.31	26.29	26.29	26.64	26.64	26.83	26.83	27.22	27.22	27.49
Turbidity	NTU	123	88.7	88.7	57.9	57.9	64.8	64.8	146	146	50.1
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0087 J	0.0074 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0463	0.0276	0.0330	0.0241	0.0230	0.0277	0.0312	0.133	0.146	0.0242
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.16	3.91	4.00	4.08	4.04	4.27	3.90	5.02	5.22	4.01
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0050 J	0.0021 J	0.0027 J	0.0017 J	< 0.0150 U	0.0016 J	0.0021 J	0.0179	0.0198	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0119 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0185	0.0210	< 0.0150 U
Magnesium - Total	mg/l	2.25	1.92	2.00	1.99	1.96	1.98	1.94	3.76	3.91	1.85 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0040 J	0.0021 J	0.0031 J	0.0022 J	0.0022 J	0.0021 J	0.0024 J	0.0145	0.0154	0.0012 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0080 J	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0074	0.0029 J	0.0041 J	0.0024 J	0.0024 J	0.0026 J	0.0029 J	0.0274	0.0298	0.0015 J
Other											
Hardness (as CaCO3)	mg/l	19.7	17.7	18.2	18.4	18.1	18.8	17.7	28.0	29.1	17.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.014 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Naphthalene - Total	ug/l	0.044 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	0.047 J	0.051	< 0.051 UJ	< 0.051 UJ	0.045 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/25/2013	5/26/2013	5/26/2013	5/27/2013	5/27/2013	5/28/2013	5/28/2013	5/29/2013	5/29/2013	5/30/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)052513	WS-001(SURFACE)052613	WS-001(0.5-1.0)052613	WS-001(SURFACE)052713	WS-001(0.5-1.0)052713	WS-001(SURFACE)052813	WS-001(0.5-1.0)052813	WS-001(SURFACE)052913	WS-001(0.5-1.0)052913	WS-001(SURFACE)053013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/3/2013	6/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)053013	WS-001(SURFACE)053113	WS-001(0.5-1.0)053113	WS-001(SURFACE)060113	WS-001(0.5-1.0)060113	WS-001(SURFACE)060213	WS-001(0.5-1.0)060213	WS-001(SURFACE)060313	WS-001(0.5-1.0)060313	WS-001(SURFACE)060413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	64	47	47	52	52	53	53	54	54	57
Dissolved Oxygen	mg/l	3.78	2.15	2.15	3.51	3.51	4.46	4.46	4.85	4.85	5.19
pH	SU	6.56	6.23	6.23	6.88	6.88	6.75	6.75	7.17	7.17	7.52
Temperature	deg C	27.49	25.27	25.27	24.88	24.88	26.7	26.7	25.15	25.15	28.26
Turbidity	NTU	50.1	293	293	112	112	67.4	67.4	88.3	88.3	76.8
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0315	0.0596	0.0599	0.0366	0.0357	0.0304	0.0296	0.0334	0.0301	0.0236
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.12	4.03	3.34	3.46	3.27	3.32	3.42	3.82	3.58	3.78
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0016 J	0.0056 J	0.0055 J	0.0036 J	0.0034 J	0.0021 J	0.0022 J	0.0024 J	0.0028 J	0.0016 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0073 J	0.0069 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.03 J	2.06	1.91	1.76	1.71	1.65	1.68	1.83	1.81	1.77
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0024 J	0.0054 J	0.0049 J	0.0030 J	0.0026 J	0.0020 J	0.0022 J	0.0033 J	0.0032 J	0.0022 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0030 J	0.0098	0.0087	0.0055	0.0053	0.0033 J	0.0033 J	0.0042 J	0.0040 J	0.0017 J
Other											
Hardness (as CaCO3)	mg/l	18.7	18.5	16.2	15.9	15.2	15.1	15.5	17.1	16.4	16.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	0.012 J	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Chrysene - Total	ug/l	< 0.050 U	0.012 J	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Fluoranthene - Total	ug/l	< 0.050 U	0.012 J	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Naphthalene - Total	ug/l	0.055	0.038 J	0.033 J	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
Pyrene - Total	ug/l	< 0.050 U	0.016 J	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.058 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/3/2013	6/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)053013	WS-001(SURFACE)053113	WS-001(0.5-1.0)053113	WS-001(SURFACE)060113	WS-001(0.5-1.0)060113	WS-001(SURFACE)060213	WS-001(0.5-1.0)060213	WS-001(SURFACE)060313	WS-001(0.5-1.0)060313	WS-001(SURFACE)060413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/8/2013	6/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)060413	WS-001(SURFACE)060513	WS-001(0.5-1.0)060513	WS-001(SURFACE)060613	WS-001(0.5-1.0)060613	WS-001(SURFACE)060713	WS-001(0.5-1.0)060713	WS-001(SURFACE)060813	WS-001(0.5-1.0)060813	WS-001(SURFACE)060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	57	60	60	71	71	72	72	65	65	75
Dissolved Oxygen	mg/l	5.19	4.89	4.89	7.5	7.5	6.93	6.93	4.42	4.42	3.02
pH	SU	7.52	8.65	8.65	6.36	6.36	6.01	6.01	6.5	6.5	6.79
Temperature	deg C	28.26	29.09	29.09	27.81	27.81	26.53	26.53	26.73	26.73	26.68
Turbidity	NTU	76.8	56.5	56.5	50.9	50.9	85	85	25	25	23.7
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0245	0.0191	0.0179	0.0183	0.0190	0.0223	0.0251	0.0272	0.0301	0.0251
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.79	3.64	3.56	3.88	3.95	4.15	4.43	4.14	4.16	4.24
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0014 J	0.0011 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0015 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.76	1.76	1.71	1.82	1.85	1.93	2.07	1.91	1.94	2.00
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UJ	< 0.00020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0018 J	0.0020 J	0.0023 J	0.0016 J	0.0014 J	0.0014 J	0.0016 J	0.0021 J	0.0022 J	0.0022 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0019 J	0.0020 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0015 J	0.0016 J	0.0016 J	0.0018 J	0.0018 J
Other											
Hardness (as CaCO3)	mg/l	16.7	16.3	15.9	17.2	17.5	18.3	19.6	18.2	18.4	18.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.037 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/8/2013	6/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)060413	WS-001(SURFACE)060513	WS-001(0.5-1.0)060513	WS-001(SURFACE)060613	WS-001(0.5-1.0)060613	WS-001(SURFACE)060713	WS-001(0.5-1.0)060713	WS-001(SURFACE)060813	WS-001(0.5-1.0)060813	WS-001(SURFACE)060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/9/2013	6/10/2013	6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/13/2013	6/13/2013	6/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)060913	WS-001(SURFACE)061013	WS-001(0.5-1.0)061013	WS-001(SURFACE)061113	WS-001(0.5-1.0)061113	WS-001(SURFACE)061213	WS-001(0.5-1.0)061213	WS-001(SURFACE)061313	WS-001(0.5-1.0)061313	WS-001(SURFACE)061413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	76	76	77	77	78	78	78	78	68
Dissolved Oxygen	mg/l	3.02	2.32	2.32	3.31	3.31	4.47	4.47	5.68	5.68	4.93
pH	SU	6.79	6.54	6.54	6.74	6.74	6.65	6.65	7.06	7.06	7.33
Temperature	deg C	26.68	26.01	26.01	26.51	26.51	27.05	27.05	29.17	29.17	29.48
Turbidity	NTU	23.7	12.7	12.7	17.9	17.9	22.2	22.2	21.3	21.3	24.4
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0213	0.0192	0.0205	0.0205	0.0215	0.0192	0.0243	0.0230	0.0341	0.0346
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	0.00041 J
Calcium - Total	mg/l	4.15	4.59	4.54	4.29	4.37	4.25	4.52	4.91	4.65	5.10
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0026 J	0.0021 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0058 J
Magnesium - Total	mg/l	1.93	2.10	2.07	1.98	2.00	2.11	2.23	2.12	2.23	2.27
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UJ	< 0.00020 UJ	< 0.00020 U	0.00011 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0017 J	0.0023 J	0.0020 J	0.0018 J	0.0017 J	0.0012 J	0.0017 J	0.0014 J	0.0021 J	0.0028 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0026 J	0.0027 J
Other											
Hardness (as CaCO3)	mg/l	18.3	20.1	19.9	18.9	19.2	19.3	20.5	21.0	20.8	22.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.024 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/9/2013	6/10/2013	6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/13/2013	6/13/2013	6/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)060913	WS-001(SURFACE)061013	WS-001(0.5-1.0)061013	WS-001(SURFACE)061113	WS-001(0.5-1.0)061113	WS-001(SURFACE)061213	WS-001(0.5-1.0)061213	WS-001(SURFACE)061313	WS-001(0.5-1.0)061313	WS-001(SURFACE)061413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/14/2013	6/15/2013	6/15/2013	6/16/2013	6/16/2013	6/17/2013	6/17/2013	6/18/2013	6/18/2013	6/19/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)061413	WS-001(SURFACE)061513	WS-001(0.5-1.0)061513	WS-001(SURFACE)061613	WS-001(0.5-1.0)061613	WS-001(SURFACE)061713	WS-001(0.5-1.0)061713	WS-001(SURFACE)061813	WS-001(0.5-1.0)061813	WS-001(SURFACE)061913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	68	72	72	72	72	72	72	74	74	83
Dissolved Oxygen	mg/l	4.93	4.32	4.32	4.48	4.48	2.82	2.82	3.68	3.68	5.16
pH	SU	7.33	7.05	7.05	7.03	7.03	6.55	6.55	7	7	7.47
Temperature	deg C	29.48	30.4	30.4	30.29	30.29	29.7	29.7	29.15	29.15	31.34
Turbidity	NTU	24.4	26.8	26.8	12.3	12.3	32.1	32.1	21	21	22.7
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0190	0.0302	0.0260	0.0159	0.0189	0.0284	0.0267	0.0254	0.0293	0.0204
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00037 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00041 J	< 0.0050 U	< 0.0050 U	0.00037 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.50	4.61	4.83	4.48	4.54	5.10	5.08	4.91	4.87	4.73
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	0.0019 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0059 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.09	2.21	2.26	2.13	2.17	2.29	2.30	2.22	2.27	2.18 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0013 J	0.0029 J	0.0022 J	< 0.0100 U	< 0.0100 U	0.0014 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0014 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	0.0025 J	0.0021 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0016 J	0.0014 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	19.8	20.6	21.4	19.9	20.3	22.2	22.1	21.4	21.5	20.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/14/2013	6/15/2013	6/15/2013	6/16/2013	6/16/2013	6/17/2013	6/17/2013	6/18/2013	6/18/2013	6/19/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)061413	WS-001(SURFACE)061513	WS-001(0.5-1.0)061513	WS-001(SURFACE)061613	WS-001(0.5-1.0)061613	WS-001(SURFACE)061713	WS-001(0.5-1.0)061713	WS-001(SURFACE)061813	WS-001(0.5-1.0)061813	WS-001(SURFACE)061913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/19/2013	6/20/2013	6/20/2013	6/21/2013	6/21/2013	6/22/2013	6/22/2013	6/23/2013	6/23/2013	6/24/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)061913	WS-001(SURFACE)062013	WS-001(0.5-1.0)062013	WS-001(SURFACE)062113	WS-001(0.5-1.0)062113	WS-001(SURFACE)062213	WS-001(0.5-1.0)062213	WS-001(SURFACE)062313	WS-001(0.5-1.0)062313	WS-001(SURFACE)062413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	83	77	77	76	76	77	77	77	77	78
Dissolved Oxygen	mg/l	5.16	4.36	4.36	5.13	5.13	4.06	4.06	5.04	5.04	3.4
pH	SU	7.47	7.08	7.08	7.52	7.52	6.5	6.5	7.47	7.47	6.58
Temperature	deg C	31.34	31.25	31.25	30.82	30.82	30.6	30.6	30.25	30.25	30.2
Turbidity	NTU	22.7	13.9	13.9	14.6	14.6	15.2	15.2	14.6	14.6	13.8
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0226	0.0164	0.0181	0.0162	0.0189	0.0239	0.0222	0.0218	0.0180	0.0319
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.82	4.92	4.76	4.95	5.26	5.21	5.11	5.15	5.10	5.54
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0011 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0018 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.23 J	2.19	2.19	2.26	2.38	2.39	2.34	2.36	2.32	2.59
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0020 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0030 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0015 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0033 J
Other											
Hardness (as CaCO3)	mg/l	21.2	21.3	20.9	21.7	22.9	22.9	22.4	22.6	22.3	24.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/19/2013	6/20/2013	6/20/2013	6/21/2013	6/21/2013	6/22/2013	6/22/2013	6/23/2013	6/23/2013	6/24/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)061913	WS-001(SURFACE)062013	WS-001(0.5-1.0)062013	WS-001(SURFACE)062113	WS-001(0.5-1.0)062113	WS-001(SURFACE)062213	WS-001(0.5-1.0)062213	WS-001(SURFACE)062313	WS-001(0.5-1.0)062313	WS-001(SURFACE)062413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/24/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/29/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)062413	WS-001(SURFACE)062513	WS-001(0.5-1.0)062513	WS-001(SURFACE)062613	WS-001(0.5-1.0)062613	WS-001(SURFACE)062713	WS-001(0.5-1.0)062713	WS-001(SURFACE)062813	WS-001(0.5-1.0)062813	WS-001(SURFACE)062913
Validation Level		Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	80	80	78	78	81	81	82	82	81
Dissolved Oxygen	mg/l	3.4	2.71	2.71	3.04	3.04	3.73	3.73	4.2	4.2	4.96
pH	SU	6.58	5.97	5.97	6.33	6.33	6.32	6.32	7.14	7.14	7.38
Temperature	deg C	30.2	30.27	30.27	30.25	30.25	31.17	31.17	32.43	32.43	31.01
Turbidity	NTU	13.8	11.4	11.4	14.2	14.2	15.6	15.6	12.8	12.8	17.9
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0215	0.0186	0.0224	0.0323	0.0382	0.0291	0.0317	0.0203	0.0241	0.0242
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.31	5.15	5.35	5.52	5.62	5.48	5.84	5.55	5.80	5.55
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0022 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.46	2.33	2.41	2.49	2.57	2.48	2.63	2.46 J	2.59 J	2.54 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	0.0024 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0023 J	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	23.4	22.5	23.3	24.0	24.6	23.9	25.4	24.0	25.1	24.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.014 J	< 0.050 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	0.024 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 UB	< 0.074 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	0.019 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/24/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/29/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)062413	WS-001(SURFACE)062513	WS-001(0.5-1.0)062513	WS-001(SURFACE)062613	WS-001(0.5-1.0)062613	WS-001(SURFACE)062713	WS-001(0.5-1.0)062713	WS-001(SURFACE)062813	WS-001(0.5-1.0)062813	WS-001(SURFACE)062913
Validation Level		Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/29/2013	6/30/2013	6/30/2013	7/1/2013	7/1/2013	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)062913	WS-001(SURFACE)063013	WS-001(0.5-1.0)063013	WS-001(SURFACE)070113	WS-001(0.5-1.0)070113	WS-001(SURFACE)070213	WS-001(0.5-1.0)070213	WS-001(SURFACE)070313	WS-001(0.5-1.0)070313	WS-001(SURFACE)070413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	80	80	79	79	72	72	71	71	72
Dissolved Oxygen	mg/l	4.96	4.39	4.39	5.24	5.24	5.53	5.53	4.39	4.39	4.38
pH	SU	7.38	6.66	6.66	7.29	7.29	7.48	7.48	7.44	7.44	7.48
Temperature	deg C	31.01	28.85	28.85	28.44	28.44	27.74	27.74	27.93	27.93	29.45
Turbidity	NTU	17.9	31.6	31.6	13.6	13.6	39.6	39.6	24.4	24.4	22.9
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0226	0.0455	0.0525	0.0304	0.0326	0.0330	0.0300	0.0242	0.0242	0.0305
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.53	5.57	5.68	5.19	5.19	5.43 J	5.43 J	5.24	5.36	5.45
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.52 J	2.55 J	2.64 J	2.42	2.42	2.53	2.42	2.43	2.49	2.55
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0017 J	0.0028 J	0.0016 J	< 0.0100 U	0.0019 J	0.0019 J	< 0.0100 U	< 0.0100 U	0.0018 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.2	24.4	25.1	22.9	22.9	24.0	23.5	23.1	23.7	24.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.018 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	0.014 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.016 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	0.011 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.015 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	0.014 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.013 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.11	0.13	0.13	< 0.051 U	< 0.051 U	0.039 J	0.045 J	0.23
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.019 J	< 0.058 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	2.0 J	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		6/29/2013	6/30/2013	6/30/2013	7/1/2013	7/1/2013	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)062913	WS-001(SURFACE)063013	WS-001(0.5-1.0)063013	WS-001(SURFACE)070113	WS-001(0.5-1.0)070113	WS-001(SURFACE)070213	WS-001(0.5-1.0)070213	WS-001(SURFACE)070313	WS-001(0.5-1.0)070313	WS-001(SURFACE)070413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/4/2013	7/5/2013	7/5/2013	7/6/2013	7/6/2013	7/7/2013	7/7/2013	7/8/2013	7/8/2013	7/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)070413	WS-001(SURFACE)070513	WS-001(0.5-1.0)070513	WS-001(SURFACE)070613	WS-001(0.5-1.0)070613	WS-001(SURFACE)070713	WS-001(0.5-1.0)070713	WS-001(SURFACE)070813	WS-001(0.5-1.0)070813	WS-001(SURFACE)070913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	72	74	74	74	74	67	67	70	70	78
Dissolved Oxygen	mg/l	4.38	3.96	3.96	2.94	2.94	2.21	2.21	2.56	2.56	3.78
pH	SU	7.48	7.03	7.03	7.13	7.13	6.87	6.87	7.06	7.06	6.72
Temperature	deg C	29.45	28.7	28.7	29.64	29.64	30.2	30.2	31.14	31.14	30.25
Turbidity	NTU	22.9	18.9	18.9	25	25	17.3	17.3	16.4	16.4	75.8
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0362	0.0319	0.0265	0.0282	0.0325	0.0226	0.0227	0.0430	0.0232	0.0503
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.41	5.36	5.60	5.30 J	5.36 J	5.30 J	5.21 J	5.65	5.32	5.88
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0036 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.58	2.48	2.44	2.51 J	2.57 J	2.45 J	2.43 J	2.79	2.51	2.72 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0023 J	0.0016 J	< 0.0100 U	0.0018 J	0.0025 J	< 0.0100 U	< 0.0100 U	0.0046 J	0.0019 J	0.0015 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0023 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0021 J	< 0.0050 U	< 0.0050 U	0.0041 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.1	23.6	24.0	23.5	24.0	23.3	23.0	25.6	23.6	25.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.19	< 0.051 U	< 0.051 U	0.047 J	0.044 J	0.14	0.14	< 0.052 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/4/2013	7/5/2013	7/5/2013	7/6/2013	7/6/2013	7/7/2013	7/7/2013	7/8/2013	7/8/2013	7/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)070413	WS-001(SURFACE)070513	WS-001(0.5-1.0)070513	WS-001(SURFACE)070613	WS-001(0.5-1.0)070613	WS-001(SURFACE)070713	WS-001(0.5-1.0)070713	WS-001(SURFACE)070813	WS-001(0.5-1.0)070813	WS-001(SURFACE)070913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	4.0 J	3.3 J	< 5.0 U	< 5.0 U	3.7 J	3.1 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/12/2013	7/12/2013	7/13/2013	7/13/2013	7/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)070913	WS-001(SURFACE)071013	WS-001(0.5-1.0)071013	WS-001(SURFACE)071113	WS-001(0.5-1.0)071113	WS-001(SURFACE)071213	WS-001(0.5-1.0)071213	WS-001(SURFACE)071313	WS-001(0.5-1.0)071313	WS-001(SURFACE)071413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	77	77	72	72	72	72	73	73	75
Dissolved Oxygen	mg/l	3.78	1.71	1.71	2.15	2.15	4.31	4.31	7.19	7.19	4.32
pH	SU	6.72	6.88	6.88	6.9	6.9	7.17	7.17	7.54	7.54	7.31
Temperature	deg C	30.25	29.83	29.83	29.38	29.38	29.21	29.21	30.4	30.4	29.76
Turbidity	NTU	75.8	25.8	25.8	16	16	20	20	20.2	20.2	35
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0078 J	0.0089 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0629	0.0950	0.111	0.0349	0.0307	0.0346	0.0377	0.0273	0.0277	0.0555
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.26	6.17	6.45	5.82	5.82	6.26 J	6.27 J	5.95 J	6.03 J	6.21 J
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0021 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.89 J	2.77	2.76	2.69	2.69	2.83 J	2.83 J	2.71 J	2.75 J	2.80 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0037 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0027 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.5	26.8	27.5	25.6	25.6	27.3	27.3	26.0	26.4	27.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Naphthalene - Total	ug/l	0.034 J	0.073	0.098	0.25	0.23	0.11	0.11	0.16	0.091	< 0.053 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.026 J	0.012 J	< 0.051 U	< 0.058 U	< 0.056 U	< 0.053 U	< 0.052 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/12/2013	7/12/2013	7/13/2013	7/13/2013	7/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-001(0.5-1.0)070913	WS-001(SURFACE)071013	WS-001(0.5-1.0)071013	WS-001(SURFACE)071113	WS-001(0.5-1.0)071113	WS-001(SURFACE)071213	WS-001(0.5-1.0)071213	WS-001(SURFACE)071313	WS-001(0.5-1.0)071313	WS-001(SURFACE)071413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.2 J	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.8 J	< 5.0 U	4.2 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/14/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)071413	WS-001(0.5-1.0)071513	WS-001(0.5-1.0)071613	WS-001(0.5-1.0)071713	WS-001(0.5-1.0)071813	WS-001(0.5-1.0)071913	WS-001(0.5-1.0)072013	WS-001(0.5-1.0)072113	WS-001(0.5-1.0)072213	WS-001(0.5-1.0)072313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	85	88	88	96	98	90	89	82	84
Dissolved Oxygen	mg/l	4.32	6.44	4.92	6.07	5.55	2.97	6.05	1.62	3.57	5.47
pH	SU	7.31	7.56	8.08	8.08	8.44	7.25	7.28	7.16	7.35	7.25
Temperature	deg C	29.76	32.91	31.89	33.61	35	32.36	32.21	29.98	29.69	29.9
Turbidity	NTU	35	23.9	17.4	17.7	24.7	21.3	22.6	29.4	23.2	20
Metals											
Arsenic - Dissolved	mg/l	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0096 J	0.0077 J	< 0.0200 U	0.0073 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	< 0.0089 UB	< 0.0066 UB	0.0053	0.0112	< 0.0109 UB	< 0.0122 UB	0.0212	0.0180	0.0225
Barium - Total	mg/L	0.0403	0.0291	0.0255	0.0341	0.0744	0.0300	0.0313	0.0730	0.0472	0.0747
Cadmium - Dissolved	mg/l	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.85 J	5.63	5.75	5.68	6.78	5.77	5.85 J	6.09 J	5.90	7.47
Chromium - Dissolved	mg/l	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0056 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0026 J
Lead - Dissolved	mg/l	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0103 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0063 J
Magnesium - Total	mg/l	2.68 J	2.61	2.68	2.64	3.21 J	2.64	2.71 J	2.84 J	2.77 J	2.89
Mercury - Dissolved	mg/l	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0066 J	< 0.0100 U	< 0.0100 U	< 0.0100 UB	< 0.0100 U	0.0032 J
Selenium - Dissolved	mg/l	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0074	< 0.0050 U	< 0.0050 U	0.0023 J	< 0.0050 U	0.0034 J
Other											
Hardness (as CaCO3)	mg/l	25.6	24.8	25.4	25.1	30.1	25.3	25.8	26.9	26.1	30.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.053 U	< 0.052 U	< 0.054 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Chrysene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Naphthalene - Total	ug/l	0.036 J	< 0.062 UB	< 0.053 UB	< 0.20 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	0.036 J	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/14/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)071413	WS-001(0.5-1.0)071513	WS-001(0.5-1.0)071613	WS-001(0.5-1.0)071713	WS-001(0.5-1.0)071813	WS-001(0.5-1.0)071913	WS-001(0.5-1.0)072013	WS-001(0.5-1.0)072113	WS-001(0.5-1.0)072213	WS-001(0.5-1.0)072313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J	< 5.0 U	3.2 J	< 5.0 U	< 5.0 U	3.9 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/24/2013	7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)072413	WS-001(0.5-1.0)072513	WS-001(0.5-1.0)072613	WS-001(0.5-1.0)072713	WS-001(0.5-1.0)072813	WS-001(0.5-1.0)072913	WS-001(0.5-1.0)073013	WS-001(0.5-1.0)073113	WS-001(0.5-1.0)080113	WS-001(0.5-1.0)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	60	79	76	76	76	57	76	80	70	81
Dissolved Oxygen	mg/l	3.58	6.7	5.85	7.07	6.41	5.27	4.14	3.7	4.7	3.84
pH	SU	6.93	7.77	7.45	7.32	7.21	7.27	7	7.12	6.99	7.1
Temperature	deg C	27.08	30.12	27.36	29.02	28.3	29.58	27.91	30.52	29.3	30.02
Turbidity	NTU	22.2	33.4	19.7	26.6	22.3	28.5	25.1	15.9	14.8	17.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0086 J	< 0.0200 U	0.0105 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0201	< 0.0107 UB	0.0163	< 0.0159 UB	< 0.0150 UB	< 0.0149 UB	< 0.0168 UB	< 0.0199 UB	< 0.0155 UB	0.0150
Barium - Total	mg/L	0.0632	0.0542	0.0969	< 0.0288 UB	0.0337	0.0353	< 0.0288 UB	0.0633	0.0449	0.0365
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.95 J	6.26	6.28	5.20 J	5.40 J	5.56	5.74	6.12	5.84	5.66
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0021 J	0.0059 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0037 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0049 J	< 0.0150 U	0.0104 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0056 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.70 J	2.89	3.14	2.47 J	2.55 J	2.67	2.73 J	2.78	2.75	2.64
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0023 J	< 0.0100 U
Nickel - Total	mg/L	0.0029 J	0.0031 J	0.0073 J	0.0018 J	0.0025 J	0.0015 J	< 0.0100 U	0.0042 J	0.0021 J	0.0026 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0027 J	0.0037 J	0.0082	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0020 J	0.0028 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.0	27.6	28.6	23.1	24.0	24.9	25.6	26.7	25.9	25.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	0.021 J	0.011 J	< 0.054 U	< 0.051 U	< 0.051 U	0.013 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	0.014 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	0.014 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	0.024 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	0.014 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	0.018 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	0.022 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	0.020 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.012 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	0.025 J	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.1 J	1.9 J	< 5.0 U	1.9 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		7/24/2013	7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)072413	WS-001(0.5-1.0)072513	WS-001(0.5-1.0)072613	WS-001(0.5-1.0)072713	WS-001(0.5-1.0)072813	WS-001(0.5-1.0)072913	WS-001(0.5-1.0)073013	WS-001(0.5-1.0)073113	WS-001(0.5-1.0)080113	WS-001(0.5-1.0)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.4 J	< 5.0 U	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013	8/12/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)080313	WS-001(0.5-1.0)080413	WS-001(0.5-1.0)080513	WS-001(0.5-1.0)080613	WS-001(0.5-1.0)080713	WS-001(0.5-1.0)080813	WS-001(0.5-1.0)080913	WS-001(0.5-1.0)081013	WS-001(0.5-1.0)081113	WS-001(0.5-1.0)081213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	83	81	79	76	79	84	85	83	79	84
Dissolved Oxygen	mg/l	6.48	4.6	5.84	4.05	4.07	4.4	4.81	5.05	5.22	1.7
pH	SU	7.42	6.51	7.06	7.01	6.97	7.2	7.15	7.07	7.12	6.79
Temperature	deg C	31.7	30.95	30.58	30.17	31.62	32.03	31.28	30.24	30.06	30.53
Turbidity	NTU	18.6	12.2	15	23.2	27.1	14.6	29	32.9	30.9	11.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 UB	0.0093 J	< 0.0200 U	0.0115 J	0.0134 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0111 UB	0.0134	0.0105	0.0130	0.0175	0.0121	0.0110	0.0139	0.0118	0.0202
Barium - Total	mg/L	0.0363	0.0481	0.0283	0.0359	0.0802	0.0313	0.0250	0.0302	0.0242	0.0296
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.74	5.84	5.52	5.59	6.87	6.17	5.91	6.05	5.66	5.61
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0020 J	0.0019 J	< 0.0150 U	0.0058 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0051 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0119 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.76	2.85	2.56	2.55	2.84	2.72	2.73	2.78	2.63	2.50
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00014 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0025 J	0.0021 J	0.0024 J	0.0021 J	0.0059 J	< 0.0100 U	< 0.0100 U	0.0021 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	0.0023 J	0.0022 J	< 0.0050 U	0.0059	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.7	26.3	24.3	24.5	28.9	26.6	26.0	26.5	24.9	24.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	0.016 J	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	0.015 J	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	0.018 J	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	0.038 J	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.013 J	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.053 UB	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.0 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013	8/12/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)080313	WS-001(0.5-1.0)080413	WS-001(0.5-1.0)080513	WS-001(0.5-1.0)080613	WS-001(0.5-1.0)080713	WS-001(0.5-1.0)080813	WS-001(0.5-1.0)080913	WS-001(0.5-1.0)081013	WS-001(0.5-1.0)081113	WS-001(0.5-1.0)081213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.3 J	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013	8/21/2013	8/22/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)081313	WS-001(0.5-1.0)081413	WS-001(0.5-1.0)081513	WS-001(0.5-1.0)081613	WS-001(0.5-1.0)081713	WS-001(0.5-1.0)081813	WS-001(0.5-1.0)081913	WS-001(0.5-1.0)082013	WS-001(0.5-1.0)082113	WS-001(0.5-1.0)082213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	83	72	66	67	72	77	78	81	82	87
Dissolved Oxygen	mg/l	2.63	4.4	6.45	6.51	6.08	4.83	4.73	4.7	4.78	3.53
pH	SU	6.82	6.9	7.15	7.24	6.87	6.99	7.48	7.74	8.18	7.65
Temperature	deg C	29.01	26.86	26.98	26.13	25.93	27.13	28.69	31.44	31.06	33.33
Turbidity	NTU	36.4	40	24.6	27.6	28.1	34.3	73.7	30.2	11	20.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0079 J	< 0.0200 U	0.0077 J
Barium - Dissolved	mg/l	0.0154	0.0151	0.0138	< 0.0103 UB	0.0163	0.0130	< 0.0089 UB	0.0086	< 0.0091 UB	0.0145
Barium - Total	mg/L	0.0318	0.0478	0.0330	0.0404	0.0330	0.0338	0.0297	< 0.0252 UB	< 0.0290 UB	0.0393
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.87	5.67	5.54	5.68	5.65	5.72	5.76	5.33	5.65	5.95
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0020 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.65	2.57	2.53	2.68	2.59	2.64	2.72	2.55	2.67	2.81
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00040 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0023 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0024 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.6	24.7	24.3	25.2	24.8	25.2	25.6	23.8	25.1	26.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013	8/21/2013	8/22/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)081313	WS-001(0.5-1.0)081413	WS-001(0.5-1.0)081513	WS-001(0.5-1.0)081613	WS-001(0.5-1.0)081713	WS-001(0.5-1.0)081813	WS-001(0.5-1.0)081913	WS-001(0.5-1.0)082013	WS-001(0.5-1.0)082113	WS-001(0.5-1.0)082213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 7.4 UB	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)082313	WS-001(0.5-1.0)082413	WS-001(0.5-1.0)082513	WS-001(0.5-1.0)082613	WS-001(0.5-1.0)082713	WS-001(0.5-1.0)082813	WS-001(0.5-1.0)082913	WS-001(0.5-1.0)083013	WS-001(0.5-1.0)083113	WS-001(0.5-1.0)090113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	102	111	104	66	68	73	72	70	69
Dissolved Oxygen	mg/l	3.38	2.76	3.64	0.01	5.8	5.64	4.43	4.34	4.12	4.31
pH	SU	7.34	7.43	NA	NA	7.16	7.54	8.17	8.57	8.03	7.91
Temperature	deg C	32.85	32.87	32.16	33.39	31.61	33.65	33.81	34.11	33.95	33.79
Turbidity	NTU	19.4	NA	NA	NA	46.6	14.6	10.3	21.4	20	18.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0073 J	< 0.0200 U	0.0072 J	0.0092 J	< 0.0200 U	0.0126 J	0.0085 J	< 0.0200 U	< 0.0200 U	< 0.0200 UJ
Barium - Dissolved	mg/l	0.0097	0.0110	0.0075	0.0135	0.0115	0.0129	0.0163	0.0194	0.0307	0.0747
Barium - Total	mg/L	0.0257	0.0471	0.0614	0.0394	0.0371	0.101	0.0896	0.0615	0.105	0.162
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ
Calcium - Total	mg/l	5.80	6.20	6.44	6.11	6.40	6.67	6.89	6.61	6.72	6.54
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0019 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0036 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	0.0056 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0077 J	0.0048 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.69	2.91	2.92	2.86	2.97	3.15	3.08	3.00	3.00	2.95
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000061 J
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0036 J	< 0.0100 U	0.0022 J	0.0024 J	0.0052 J	0.0051 J	< 0.0100 U	< 0.0100 U	0.0019 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	0.0030 J	< 0.0050 U	0.0023 J	0.0027 J	0.0048 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.5	27.5	28.1	27.1	28.2	29.7	29.9	28.9	29.2	28.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U	1.6 J	1.9 J	< 5.0 U	3.8 J	1.4 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)082313	WS-001(0.5-1.0)082413	WS-001(0.5-1.0)082513	WS-001(0.5-1.0)082613	WS-001(0.5-1.0)082713	WS-001(0.5-1.0)082813	WS-001(0.5-1.0)082913	WS-001(0.5-1.0)083013	WS-001(0.5-1.0)083113	WS-001(0.5-1.0)090113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	3.4 J	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013	9/8/2013	9/9/2013	9/10/2013	9/11/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)090213	WS-001(0.5-1.0)090313	WS-001(0.5-1.0)090413	WS-001(0.5-1.0)090513	WS-001(0.5-1.0)090613	WS-001(0.5-1.0)090713	WS-001(0.5-1.0)090813	WS-001(0.5-1.0)090913	WS-001(0.5-1.0)091013	WS-001(0.5-1.0)091113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	70	70	74	74	74	75	75	77	73	75
Dissolved Oxygen	mg/l	5.32	5.12	4.52	6.27	4.97	5.88	5.42	3.06	4.12	3.87
pH	SU	7.55	7.31	8.42	9.32	8.62	7.98	8.33	8.13	7.97	8.48
Temperature	deg C	33.65	33.51	31.55	33.42	32.41	29.77	32.17	31.88	31.72	33.49
Turbidity	NTU	14.1	15.3	26.2	11.8	13.7	22.9	10.4	10	33.1	27.9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0082 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	0.0079 J
Barium - Dissolved	mg/l	0.0653	0.0153	0.0128	0.0189	0.0232	0.0329	0.0279	0.0768	0.0320	< 0.0213 UB
Barium - Total	mg/L	0.272	0.0629	0.0522	0.0403	0.0453	0.0500	0.0668	0.192	0.0734	0.0739
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.81	6.98	7.07	6.97	6.60	6.83	7.01	7.29	7.11	7.57
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.07	3.11	3.13	3.11	2.95	3.07	3.02	3.23	3.16	3.40
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 UB	0.00015 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0031 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0023 J
Other											
Hardness (as CaCO3)	mg/l	29.7	30.2	30.5	30.2	28.6	29.7	30.0	31.5	30.8	32.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.011 J	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.021 J	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.014 J	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	0.012 J
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	0.018 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.013 J	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.024 J	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	0.011 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	0.012 J
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.034 J	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.053 UB	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.071	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	0.056	< 0.053 U	< 0.060 U	< 0.052 U	< 0.056 U	< 0.053 U	0.011 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.3 J	< 5.0 U	< 5.0 U	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013	9/8/2013	9/9/2013	9/10/2013	9/11/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)090213	WS-001(0.5-1.0)090313	WS-001(0.5-1.0)090413	WS-001(0.5-1.0)090513	WS-001(0.5-1.0)090613	WS-001(0.5-1.0)090713	WS-001(0.5-1.0)090813	WS-001(0.5-1.0)090913	WS-001(0.5-1.0)091013	WS-001(0.5-1.0)091113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 UB	3.9 J	< 5.0 U	< 5.0 U	3.1 J	< 5.0 UB	3.7 J	3.4 J	< 5.0 U	3.2 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013	9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)091213	WS-001(0.5-1.0)091313	WS-001(0.5-1.0)091413	WS-001(0.5-1.0)091513	WS-001(0.5-1.0)091613	WS-001(0.5-1.0)091713	WS-001(0.5-1.0)091813	WS-001(0.5-1.0)091913	WS-001(0.5-1.0)092013	WS-001(0.5-1.0)092113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	72	73	73	71	72	72	75	73	73
Dissolved Oxygen	mg/l	3.52	5.24	5.78	4.99	6.52	5.49	5.21	1.91	5.17	4.84
pH	SU	8.21	7.89	8.4	8.3	8.97	8.8	8.54	8.6	8.91	8.06
Temperature	deg C	33.02	28.93	27.24	27.13	27.98	28.27	28.83	28.52	28.2	25.42
Turbidity	NTU	21.2	73.9	20.7	21.1	30.9	25.5	17.8	11.3	22.7	12.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0079 J	0.0076 J	0.0076 J	< 0.0200 U	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U	0.0080 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0160	0.0142	0.0196	0.0164	0.0180	0.0143	0.0230	0.0224	< 0.0203 UB	0.0209
Barium - Total	mg/L	0.0364	0.0560	0.0611	0.0385	0.0425	0.0440	0.0345	0.0510	0.0634	0.0546
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.15	7.15	7.14	6.83	6.67	7.32	6.79	6.90	6.83	7.06
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.16	3.20	3.25	3.11	3.04	3.37	3.08	3.13	3.10	3.24
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.9	31.0	31.2	29.8	29.2	32.2	29.7	30.1	29.8	31.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 UB	< 0.051 U	< 0.056 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.056 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U	1.6 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013	9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)091213	WS-001(0.5-1.0)091313	WS-001(0.5-1.0)091413	WS-001(0.5-1.0)091513	WS-001(0.5-1.0)091613	WS-001(0.5-1.0)091713	WS-001(0.5-1.0)091813	WS-001(0.5-1.0)091913	WS-001(0.5-1.0)092013	WS-001(0.5-1.0)092113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		9/22/2013	9/23/2013	9/24/2013	9/25/2013	9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)092213	WS-001(0.5-1.0)092313	WS-001(0.5-1.0)092413	WS-001(0.5-1.0)092513	WS-001(0.5-1.0)092613	WS-001(0.5-1.0)092713	WS-001(0.5-1.0)092813	WS-001(0.5-1.0)092913	WS-001(0.5-1.0)093013	WS-001(0.5-1.0)100113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	72	72	74	72	72	73	74	72	73	74
Dissolved Oxygen	mg/l	6.14	6.83	6.71	5.95	4.98	3.67	3.51	3.15	5.99	2.23
pH	SU	8.38	8.75	8.71	8.23	8.16	8.56	8.2	7.85	8.17	7.91
Temperature	deg C	25	25.48	25.32	25.99	28.16	27.51	27.04	25.97	25.91	25.86
Turbidity	NTU	17.7	25.3	22.1	46.2	14.7	22	27.8	13.4	32.1	34.2
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0180	0.0429	0.0138	0.0189	0.0157	0.0211	0.0240	0.0174	< 0.0208 UB	0.0322
Barium - Total	mg/L	0.0548	0.0416	0.0341	0.0399	0.0320	0.0360	0.0454	0.0455	0.0416	0.0520
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.39	6.87	6.54	6.74	6.64	6.44	6.76	6.45	6.65	7.21
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.25	3.12	3.03	3.06	3.11	3.01	3.15	3.05	3.09	3.04
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0025 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.8	30.0	28.8	29.4	29.4	28.5	29.8	28.7	29.3	30.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.050 UB	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	2.0 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		9/22/2013	9/23/2013	9/24/2013	9/25/2013	9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)092213	WS-001(0.5-1.0)092313	WS-001(0.5-1.0)092413	WS-001(0.5-1.0)092513	WS-001(0.5-1.0)092613	WS-001(0.5-1.0)092713	WS-001(0.5-1.0)092813	WS-001(0.5-1.0)092913	WS-001(0.5-1.0)093013	WS-001(0.5-1.0)100113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	4.3 J	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		10/2/2013	10/3/2013	10/4/2013	10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)100213	WS-001(0.5-1.0)100313	WS-001(0.5-1.0)100413	WS-001(0.5-1.0)100513	WS-001(0.5-1.0)100613	WS-001(0.5-1.0)100713	WS-001(0.5-1.0)100813	WS-001(0.5-1.0)100913	WS-001(0.5-1.0)101013	WS-001(0.5-1.0)101113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	97	74	76	76	NA	NA	NA	81	84	83
Dissolved Oxygen	mg/l	3.54	1.78	1.38	1.52	NA	NA	NA	6.89	4.98	4.62
pH	SU	8.09	7.64	7.89	7.74	NA	NA	NA	7.96	6.64	7.31
Temperature	deg C	25.81	26.25	26.7	26.21	NA	NA	NA	22.86	20.41	23.35
Turbidity	NTU	15.9	41.5	62.4	51.1	NA	NA	NA	29.1	33.5	60.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0069 J	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U
Barium - Dissolved	mg/l	0.0260	0.0231	0.0263	0.0233	0.0212	0.0202	0.0185	0.0172	0.0206	0.0191
Barium - Total	mg/L	0.0537	0.0501	0.0452	0.0542	0.0533	0.0456	0.0401	0.0353	0.0385	0.0295
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.63	6.76	6.64	6.80	6.30	6.03	6.06	6.01	5.74	5.81
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.12	3.14	3.09	3.06	2.96	2.87	2.91	2.88	2.76	2.80
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0022 J
Nickel - Total	mg/L	0.0019 J	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.4	29.8	29.3	29.6	27.9	26.9	27.1	26.9	25.7	26.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.051 U	0.058	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	0.043 J	< 0.052 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	2.3 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		10/2/2013	10/3/2013	10/4/2013	10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)100213	WS-001(0.5-1.0)100313	WS-001(0.5-1.0)100413	WS-001(0.5-1.0)100513	WS-001(0.5-1.0)100613	WS-001(0.5-1.0)100713	WS-001(0.5-1.0)100813	WS-001(0.5-1.0)100913	WS-001(0.5-1.0)101013	WS-001(0.5-1.0)101113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)101213	WS-001(0.5-1.0)101313	WS-001(0.5-1.0)101413	WS-001(0.5-1.0)101513	WS-001(0.5-1.0)101613	DUP-WS-103-101613	WS-001(0.5-1.0)101713	WS-001(0.5-1.0)101813	WS-001(0.5-1.0)101913	WS-001(0.5-1.0)102013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	82	80	80	81	79	NA	78	78	78	79
Dissolved Oxygen	mg/l	3.32	6.17	5.84	5.71	5.14	NA	5.45	4.44	5.05	5.23
pH	SU	7.04	7.03	7.26	7.41	7.28	NA	6.85	7.28	6.96	6.8
Temperature	deg C	23.66	22.67	22.26	22.35	20.2	NA	20.15	17.88	17.37	16.37
Turbidity	NTU	21.1	28.7	41.2	39.2	40.9	NA	201	34.4	36.7	30.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0077 J
Barium - Dissolved	mg/l	0.0175	0.0171	0.0170	0.0212	0.0170	0.0185	0.0159	0.0186	0.0174	0.0176
Barium - Total	mg/L	0.0336	0.0345	0.0463	0.0374	0.0346	0.0365	0.0292	0.0307	0.0332	0.0290
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.53	5.58	5.45	5.44	5.08	4.96	5.15	4.96	4.91	4.94
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.65	2.69	2.70	2.66	2.49	2.45	2.53	2.47	2.41	2.43
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0031 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.7	25.0	24.7	24.5	23.0	22.5	23.3	22.5	22.2	22.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 UB	< 0.050 UB	< 0.081 UB	< 0.052 U	< 0.062 UB	< 0.074 UB	< 0.051 U	0.054	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)101213	WS-001(0.5-1.0)101313	WS-001(0.5-1.0)101413	WS-001(0.5-1.0)101513	WS-001(0.5-1.0)101613	DUP-WS-103-101613	WS-001(0.5-1.0)101713	WS-001(0.5-1.0)101813	WS-001(0.5-1.0)101913	WS-001(0.5-1.0)102013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)102113	WS-001(0.5-1.0)102213	WS-001(0.5-1.0)102313	WS-001(0.5-1.0)102413	WS-001(0.5-1.0)102513	WS-001(0.5-1.0)102613	WS-001(0.5-1.0)102713	WS-001(0.5-1.0)102813	WS-001(0.5-1.0)102913	WS-001(0.5-1.0)103013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	76	72	75	75	76	76	74	75	74
Dissolved Oxygen	mg/l	3.97	6.24	5.65	7.23	6.64	5.31	5.01	3.38	4.25	4.39
pH	SU	6.76	6.43	6.45	6.71	6.7	6.7	6.51	6.55	6.57	6.44
Temperature	deg C	18.78	17.67	16.92	16.66	15.99	13.85	14.24	15.03	15.29	16.62
Turbidity	NTU	31.8	115	20.7	56.3	32.5	18.7	42.8	101	41.8	133
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0160	0.0169	0.0172	0.0159	0.0157	0.0163	0.0182	0.0175	0.0186	0.0180
Barium - Total	mg/L	0.0272	0.0285	0.0285	0.0272	0.0259	0.0260	0.0263	0.0285	0.0317	0.0274
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.62	4.74	4.68	4.49	4.42	4.75	4.46	4.55	4.23	4.24
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0048 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0050 J	< 0.0150 U	0.0053 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.29	2.34	2.32	2.23	2.21	2.34	2.25	2.25	2.14	2.14
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	21.0	21.5	21.2	20.4	20.1	21.5	20.4	20.6	19.4	19.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.4 J	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)102113	WS-001(0.5-1.0)102213	WS-001(0.5-1.0)102313	WS-001(0.5-1.0)102413	WS-001(0.5-1.0)102513	WS-001(0.5-1.0)102613	WS-001(0.5-1.0)102713	WS-001(0.5-1.0)102813	WS-001(0.5-1.0)102913	WS-001(0.5-1.0)103013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		10/31/2013	3/30/2013	3/31/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/7/2013	4/8/2013	4/8/2013
Depths (ft)		0.5-1 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-001(0.5-1.0)103113	RRS330SW2	RRS331SW2	RRS331SW2 DUP	RRS41SW2	RRS42SW2	RRS43SW2	RRS44SW2	WS-002-04052013(SURFACE)	WS-002-04062013(SURFACE)	WS-002-04072013(SURFACE)	WS-002(SURFACE)040813	WS-DUP2-04082013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**													
FIELD														
Conductivity	uS/cm	80	NA	NA	NA	NA	NA	NA	NA	70.2	59	57	51	NA
Dissolved Oxygen	mg/l	3.8	NA	NA	NA	NA	NA	NA	NA	10.29 *	8.56	6.72	4.4	NA
pH	SU	6.5	NA	NA	NA	NA	NA	NA	NA	6	7.9	6.41	6.35	NA
Temperature	deg C	18	NA	NA	NA	NA	NA	NA	NA	11.8	13.77	14.85	16.02	NA
Turbidity	NTU	29.2	NA	NA	NA	NA	NA	NA	NA	7.17	3	4.8	4.1	NA
Metals														
Arsenic - Dissolved	mg/l	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	< 0.0100 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0172	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0290	0.0187	0.0173	0.0176	0.0146	NA	NA	0.0156	0.0160	0.0163	0.0172	0.0161	0.0168
Cadmium - Dissolved	mg/l	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.32	NA	NA	NA	NA	NA	NA	NA	3.05	3.15	2.96	2.76	2.75
Chromium - Dissolved	mg/l	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.16	NA	NA	NA	NA	NA	NA	NA	1.53	1.47	1.45	1.39	1.41
Mercury - Dissolved	mg/l	< 0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	< 0.0150 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0070 U	< 0.0070 U	< 0.0070 U	< 0.0070 U	NA	NA	< 0.0070 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	NA	NA	NA	NA	NA	NA	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other														
Hardness (as CaCO3)	mg/l	19.7	NA	NA	NA	NA	NA	NA	NA	13.9	13.9	13.4	12.6	12.7
PAHs-SIM														
1-Methylnaphthalene - Total	ug/l	< 0.051 U	NA	NA	NA	NA	NA	NA	NA	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	NA	NA	NA	NA	NA	NA	NA	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.50 U	< 0.53 U	< 0.54 U	< 0.50 U	< 0.54 U	< 0.53 U	< 0.64 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.50 U	< 0.53 U	< 0.54 U	< 0.50 U	< 0.54 U	< 0.53 U	< 0.64 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.13 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U
TPH														
Diesel C10-C28	ug/L	NA	< 500 U	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	< 200 U	< 200 U	< 200 U	< 200 U	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	< 500 U	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA	NA	NA
VOCs														
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		10/31/2013	3/30/2013	3/31/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/7/2013	4/8/2013	4/8/2013
Depths (ft)		0.5-1 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-001(0.5-1.0)103113	RRS330SW2	RRS331SW2	RRS331SW2 DUP	RRS41SW2	RRS42SW2	RRS43SW2	RRS44SW2	WS-002-04052013(SURFACE)	WS-002-04062013(SURFACE)	WS-002-04072013(SURFACE)	WS-002(SURFACE)040813	WS-DUP2-04082013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**													
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		4/9/2013	4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/13/2013	4/14/2013	4/15/2013	4/15/2013	4/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)040913	WS-002(SURFACE)041013	WS-002(SURFACE)041113	WS-DUP4-041113	WS-002(SURFACE)041213	WS-002(SURFACE)041313	WS-002(SURFACE)041413	WS-002(SURFACE)041513	WS-DUP6-041513	WS-002(SURFACE)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	47	48	44	NA	48	46	56	79	NA	69
Dissolved Oxygen	mg/l	5.79	5.81	5.07	NA	4.98	5.22	5.03	9.99	NA	5.27
pH	SU	6.11	6.12	6.55	NA	6.33	7.02	6.33	6.43	NA	6.23
Temperature	deg C	17.24	19.56	17.01	NA	15.59	16.59	17.76	18.5	NA	19.37
Turbidity	NTU	3.6	4.9	9.9	NA	6.5	7.5	3.2	1.3	NA	8.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0198	0.0159	0.0175	0.0182	0.0199	0.0191	0.0153	0.0195	0.0204	0.0186
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	2.96	2.86	2.71	2.67	2.55	2.99	2.70	3.15	3.22	3.02
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0013 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	0.0018 J	< 0.0150 U	< 0.0150 U	0.0011 J	0.0013 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.48	1.42	1.41 J	1.41 J	1.37	1.44	1.33 J	1.55	1.61	1.51
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0019 J	< 0.0100 UB	< 0.0100 U	< 0.0100 U	0.0011 J	0.0012 J	0.0011 J	0.0024 J	< 0.0100 U	0.0023 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	13.5	13.0	12.6	12.5	12.0	13.4	12.2	14.2	14.7	13.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	0.060	< 0.051 U	0.037 J	0.031 J	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	1.5 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		4/9/2013	4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/13/2013	4/14/2013	4/15/2013	4/15/2013	4/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)040913	WS-002(SURFACE)041013	WS-002(SURFACE)041113	WS-DUP4-041113	WS-002(SURFACE)041213	WS-002(SURFACE)041313	WS-002(SURFACE)041413	WS-002(SURFACE)041513	WS-DUP6-041513	WS-002(SURFACE)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		4/17/2013	4/18/2013	4/19/2013	4/20/2013	4/21/2013	4/22/2013	4/23/2013	4/24/2013	4/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)041713	WS-002(SURFACE)041813	WS-002(SURFACE)041913	WS-002(SURFACE)042013	WS-002(SURFACE)042113	WS-002(SURFACE)042213	WS-002(SURFACE)042313	WS-002(SURFACE)042413	WS-002(SURFACE)042513
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	58	40	52	52	53	172	170	166	180
Dissolved Oxygen	mg/l	4.38	4.65	4.87	4.43	3.99	3.03	6.17	7	6.31
pH	SU	6.08	7.02	5.61	6.67	7.09	6.6	6.74	6.84	7.32
Temperature	deg C	22.74	23.28	18.88	18.07	18.6	20.88	19.92	18.85	19.3
Turbidity	NTU	13	5.1	7.1	0	7.2	0	0	4.5	0
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0187	0.0166	0.0192	0.0193 J	0.0228	0.0190	0.0197	0.0199	0.0180
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.06	2.83	3.26	3.27 J	3.12	3.05	3.14 J	2.92	3.18
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0013 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.54	1.44	1.61	1.61	1.64	1.51	1.53	1.49	1.61
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0011 J	0.0021 J	0.0013 J	< 0.0100 U	0.0020 J	0.0017 J	0.0018 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0018 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	14.0	13.0	14.8	14.8	14.5	13.8	14.2	13.4	14.6
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 UJ
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.037 J	0.031 J	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 UJ	NA	< 5.0 UJ	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		4/17/2013	4/18/2013	4/19/2013	4/20/2013	4/21/2013	4/22/2013	4/23/2013	4/24/2013	4/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)041713	WS-002(SURFACE)041813	WS-002(SURFACE)041913	WS-002(SURFACE)042013	WS-002(SURFACE)042113	WS-002(SURFACE)042213	WS-002(SURFACE)042313	WS-002(SURFACE)042413	WS-002(SURFACE)042513
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		4/26/2013	4/27/2013	4/28/2013	4/29/2013	4/30/2013	5/1/2013	5/2/2013	5/3/2013	5/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)042613	WS-002(SURFACE)042713	WS-002(SURFACE)042813	WS-002(SURFACE)042913	WS-002(SURFACE)043013	WS-002(SURFACE)050113	WS-002(SURFACE)050213	WS-002(SURFACE)050313	WS-002(SURFACE)050413
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	170	176	173	179	52	52	56	53	54
Dissolved Oxygen	mg/l	5.29	5.7	5.75	5.2	5.07	7.58	4.95	6.25	5.2
pH	SU	7.16	6.68	6.21	7.11	6.48	7.61	7.72	7.12	7.12
Temperature	deg C	20.16	18.6	NA	20.67	22.16	22.95	22.61	18.88	15.71
Turbidity	NTU	0	0	0	0	0	0	2.1	38	2.4
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0193	0.0204	0.0185	0.0185	0.0185	0.0189	0.0197	0.0209	0.0206
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	2.68	3.19	3.03	3.11	3.28	3.12	3.12	3.29	3.67
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.34	1.60	1.55	1.59	1.55	1.56	1.57 J	1.63	1.81
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0014 J	0.0015 J	< 0.0100 U	0.0014 J	0.0013 J	< 0.0100 U	0.0014 J	0.0011 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	12.2	14.6	13.9	14.3	14.6	14.2	14.3	14.9	16.6
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 UJ	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	0.017 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 UBJ	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		4/26/2013	4/27/2013	4/28/2013	4/29/2013	4/30/2013	5/1/2013	5/2/2013	5/3/2013	5/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)042613	WS-002(SURFACE)042713	WS-002(SURFACE)042813	WS-002(SURFACE)042913	WS-002(SURFACE)043013	WS-002(SURFACE)050113	WS-002(SURFACE)050213	WS-002(SURFACE)050313	WS-002(SURFACE)050413
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		5/5/2013	5/6/2013	5/7/2013	5/8/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)050513	WS-002(SURFACE)050613	WS-002(SURFACE)050713	WS-002(SURFACE)050813	WS-002(SURFACE)050913	WS-002(SURFACE)051013	WS-002(SURFACE)051113	WS-002(SURFACE)051213	WS-002(SURFACE)051313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	52	53	54	57	60	57	56	61	60
Dissolved Oxygen	mg/l	7.51	13.58 *	12.29 *	8.02	4.95	6.88	7.39	6.47	4.36
pH	SU	6.87	5.79	7.06	5.88	5.69	5.69	6.98	5.67	6.22
Temperature	deg C	16.42	17.24	20.44	21.03	20.3	21.76	22.16	21.84	21.78
Turbidity	NTU	36.3	27	8.6	14.2	1	0	11.7	20.1	16.1
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0207	0.0205	0.0192	0.0171	0.0183	0.0173	0.0193	0.0199	0.0162
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.21	3.30	3.33	3.22	3.51	3.30	3.48	3.51	3.40
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0019 J	0.0011 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0055 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.59	1.67	1.56	1.60 J	1.75	1.65	1.72	1.72	1.67
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0012 J	0.0014 J	0.0014 J	0.0015 J	0.0012 J	0.0016 J	0.0017 J	0.0015 J	0.0016 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	0.0015 J	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	14.6	15.1	14.8	14.6	16.0	15.0	15.8	15.8	15.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.052 U	0.021 J	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	0.10	0.10	0.044 J
Phenanthrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.067 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 UB	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		5/5/2013	5/6/2013	5/7/2013	5/8/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)050513	WS-002(SURFACE)050613	WS-002(SURFACE)050713	WS-002(SURFACE)050813	WS-002(SURFACE)050913	WS-002(SURFACE)051013	WS-002(SURFACE)051113	WS-002(SURFACE)051213	WS-002(SURFACE)051313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		5/14/2013	5/15/2013	5/16/2013	5/17/2013	5/18/2013	5/19/2013	5/20/2013	5/21/2013	5/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)051413	WS-002(SURFACE)051513	WS-002(SURFACE)051613	WS-002(SURFACE)051713	WS-002(SURFACE)051813	WS-002(SURFACE)051913	WS-002(SURFACE)052013	WS-002(SURFACE)052113	WS-002(SURFACE)052213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	58	59	55	59	60	59	58	59	57
Dissolved Oxygen	mg/l	5.48	6.12	4.98	4.49	5.69	5.31	5.03	4.35	4.73
pH	SU	5.38	6.39	5.5	6.33	6.01	5.64	6.31	6.08	6.73
Temperature	deg C	22.6	23.77	23.12	23.85	26.14	25.63	25.78	24.94	23.49
Turbidity	NTU	10.8	19.7	30.5	25.1	19.8	18.8	27.3	37.3	28.6
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0168	0.0219	0.0182	0.0201	0.0155	0.0150	0.0174	0.0197	0.0193
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.52	3.45	3.50	3.70	3.50	3.53	3.83	3.75	3.56
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.76 J	1.68	1.71	1.80	1.72	1.73	1.87	1.95	1.71 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0014 J	0.0016 J	0.0014 J	< 0.0100 U	0.0013 J	0.0014 J	0.0013 J	0.0016 J	0.0013 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ
Other										
Hardness (as CaCO3)	mg/l	16.0	15.6	15.8	16.6	15.8	16.0	17.2	17.4	15.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	0.011 J	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	0.22	0.058	0.043 J	< 0.051 U	< 0.053 U	0.035 J	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	0.039 J	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		5/14/2013	5/15/2013	5/16/2013	5/17/2013	5/18/2013	5/19/2013	5/20/2013	5/21/2013	5/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)051413	WS-002(SURFACE)051513	WS-002(SURFACE)051613	WS-002(SURFACE)051713	WS-002(SURFACE)051813	WS-002(SURFACE)051913	WS-002(SURFACE)052013	WS-002(SURFACE)052113	WS-002(SURFACE)052213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		5/23/2013	5/24/2013	5/25/2013	5/26/2013	5/27/2013	5/28/2013	5/29/2013	5/30/2013	5/31/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)052313	WS-002(SURFACE)052413	WS-002(SURFACE)052513	WS-002(SURFACE)052613	WS-002(SURFACE)052713	WS-002(SURFACE)052813	WS-002(SURFACE)052913	WS-002(SURFACE)053013	WS-002(SURFACE)053113
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	58	59	61	61	61	61	60	63	60
Dissolved Oxygen	mg/l	5.5	6	4.61	4.27	4.59	4.88	4.41	4.81	4.86
pH	SU	7.14	6.43	7.06	6.44	6.96	6.89	6.48	5.99	6.64
Temperature	deg C	24.68	25.19	24.39	25.49	25.94	26.31	26.66	27.43	26.75
Turbidity	NTU	20.8	38.7	42.2	32.7	25.8	29.7	49.7	34.4	32.5
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0165 J	0.0172	0.0182	0.0192	0.0181	0.0195	0.0184	0.0193	0.0192
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.54	3.70	3.74	3.86	3.79	3.90	3.96	4.02	3.93
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.75	1.77 J	1.81	1.82	1.85	1.86	1.95	1.88 J	1.90
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0017 J	0.0013 J	0.0015 J	0.0015 J	0.0018 J	0.0012 J	< 0.0100 U	< 0.0100 U	0.0014 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	16.0	16.5	16.8	17.2	17.1	17.4	17.9	17.8	17.6
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.060	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	0.034 J	< 0.052 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		5/23/2013	5/24/2013	5/25/2013	5/26/2013	5/27/2013	5/28/2013	5/29/2013	5/30/2013	5/31/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)052313	WS-002(SURFACE)052413	WS-002(SURFACE)052513	WS-002(SURFACE)052613	WS-002(SURFACE)052713	WS-002(SURFACE)052813	WS-002(SURFACE)052913	WS-002(SURFACE)053013	WS-002(SURFACE)053113
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/1/2013	6/2/2013	6/3/2013	6/4/2013	6/5/2013	6/6/2013	6/7/2013	6/8/2013	6/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)060113	WS-002(SURFACE)060213	WS-002(SURFACE)060313	WS-002(SURFACE)060413	WS-002(SURFACE)060513	WS-002(SURFACE)060613	WS-002(SURFACE)060713	WS-002(SURFACE)060813	WS-002(SURFACE)060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	63	60	67	68	65	80	78	69	79
Dissolved Oxygen	mg/l	4.28	4.81	5.98	6.17	5.67	7.92	5.07	4.63	6.73
pH	SU	6.33	6.91	6.82	7.37	8.34	6.21	6.24	7	6.7
Temperature	deg C	27.19	25.89	24.57	26.06	27.17	26.33	25.4	26.06	26.08
Turbidity	NTU	42.4	59.7	67.4	49.9	43.3	11.7	27.7	10.6	11.6
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0181	0.0189	0.0191	0.0164	0.0167	0.0173	0.0197	0.0201	0.0198
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.86	3.73	4.13	4.17	3.88	3.88	4.35	4.30	4.34
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.83	1.77	1.90	1.89	1.85	1.85	2.05	2.02	2.07
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	0.000081 J	0.000071 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0011 J	< 0.0100 U	< 0.0100 U	0.0015 J	0.0021 J	0.0011 J	< 0.0100 U	0.0014 J	0.0014 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	17.2	16.6	18.1	18.2	17.3	17.3	19.3	19.0	19.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.020 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	2.7 J	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/1/2013	6/2/2013	6/3/2013	6/4/2013	6/5/2013	6/6/2013	6/7/2013	6/8/2013	6/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)060113	WS-002(SURFACE)060213	WS-002(SURFACE)060313	WS-002(SURFACE)060413	WS-002(SURFACE)060513	WS-002(SURFACE)060613	WS-002(SURFACE)060713	WS-002(SURFACE)060813	WS-002(SURFACE)060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/10/2013	6/11/2013	6/12/2013	6/13/2013	6/14/2013	6/15/2013	6/16/2013	6/17/2013	6/18/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)061013	WS-002(SURFACE)061113	WS-002(SURFACE)061213	WS-002(SURFACE)061313	WS-002(SURFACE)061413	WS-002(SURFACE)061513	WS-002(SURFACE)061613	WS-002(SURFACE)061713	WS-002(SURFACE)061813
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	76	75	78	77	68	72	72	70	72
Dissolved Oxygen	mg/l	3.44	6.43	5.1	6.1	3.79	5.19	4.01	3.55	4.44
pH	SU	6.56	6.46	7.12	6.7	6.68	7.04	7.01	6.77	7.01
Temperature	deg C	26.11	26.79	28.12	28.57	29.22	29.88	29.6	29.05	28.7
Turbidity	NTU	11.2	11.8	9.54	10.8	15.7	11.7	11.2	14	13.7
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0175	0.0179	0.0154	0.0159	0.0220	0.0218	0.0159	0.0226	0.0197
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00038 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.40	4.26	4.33	4.20	4.94	4.63	4.68	4.97	4.67
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.05	1.98	2.15	2.00	2.15	2.08	2.16	2.27	2.20
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 UJ	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0016 J	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	19.4	18.8	19.7	18.7	21.2	20.1	20.6	21.8	20.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/10/2013	6/11/2013	6/12/2013	6/13/2013	6/14/2013	6/15/2013	6/16/2013	6/17/2013	6/18/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)061013	WS-002(SURFACE)061113	WS-002(SURFACE)061213	WS-002(SURFACE)061313	WS-002(SURFACE)061413	WS-002(SURFACE)061513	WS-002(SURFACE)061613	WS-002(SURFACE)061713	WS-002(SURFACE)061813
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/19/2013	6/20/2013	6/21/2013	6/22/2013	6/23/2013	6/24/2013	6/25/2013	6/26/2013	6/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)061913	WS-002(SURFACE)062013	WS-002(SURFACE)062113	WS-002(SURFACE)062213	WS-002(SURFACE)062313	WS-002(SURFACE)062413	WS-002(SURFACE)062513	WS-002(SURFACE)062613	WS-002(SURFACE)062713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	85	76	78	78	78	81	76	74	81
Dissolved Oxygen	mg/l	4.12	5.05	4.13	3.57	2.68	2.85	3.05	3.38	2.42
pH	SU	6.99	7.23	6.76	6.49	6.34	6.72	6.92	6.91	6.83
Temperature	deg C	28.8	29.2	29.41	29.75	29.22	29.57	29.85	29.95	30.15
Turbidity	NTU	14.7	10.2	12.9	13.6	15.1	14.1	9.39	10.2	11.6
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0159	0.0151	0.0201	0.0219	0.0185	0.0251	0.0181	0.0184	0.0232
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.77	4.99	5.20	5.42	5.33	5.72	5.20	5.17	5.44
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.21 J	2.30	2.30	2.43	2.39	2.57	2.31	2.33	2.44
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0014 J	0.0020 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	21.0	21.9	22.5	23.6	23.1	24.8	22.5	22.5	23.6
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 UB	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/19/2013	6/20/2013	6/21/2013	6/22/2013	6/23/2013	6/24/2013	6/25/2013	6/26/2013	6/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)061913	WS-002(SURFACE)062013	WS-002(SURFACE)062113	WS-002(SURFACE)062213	WS-002(SURFACE)062313	WS-002(SURFACE)062413	WS-002(SURFACE)062513	WS-002(SURFACE)062613	WS-002(SURFACE)062713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/28/2013	6/29/2013	6/30/2013	7/1/2013	7/2/2013	7/3/2013	7/4/2013	7/5/2013	7/6/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)062813	WS-002(SURFACE)062913	WS-002(SURFACE)063013	WS-002(SURFACE)070113	WS-002(SURFACE)070213	WS-002(SURFACE)070313	WS-002(SURFACE)070413	WS-002(SURFACE)070513	WS-002(SURFACE)070613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	82	85	81	81	72	72	71	73	76
Dissolved Oxygen	mg/l	1.52	2.1	3.88	4.16	2.93	4.03	5.41	3.67	2.69
pH	SU	6.69	6.7	7.02	7.1	6.63	6.73	7.54	6.31	6.25
Temperature	deg C	30.94	30.92	29.32	28.11	27.17	27.14	28.16	27.9	28
Turbidity	NTU	13.5	15.9	25.7	13.8	13.6	15.5	30.2	11.7	19.1
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0196	0.0312	0.0328	0.0246	0.0257	0.0289	0.0394	0.0176	0.0332
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.50	5.80	5.75	5.47	5.55 J	5.61	5.48	5.41	5.35 J
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.48 J	2.64 J	2.63 J	2.55	2.54	2.58	2.51	2.50	2.44 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	0.0016 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	23.9	25.3	25.2	24.2	24.3	24.6	24.0	23.8	23.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	0.083	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	0.093	0.033 J	0.049 J	0.090	0.14	0.047 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		6/28/2013	6/29/2013	6/30/2013	7/1/2013	7/2/2013	7/3/2013	7/4/2013	7/5/2013	7/6/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)062813	WS-002(SURFACE)062913	WS-002(SURFACE)063013	WS-002(SURFACE)070113	WS-002(SURFACE)070213	WS-002(SURFACE)070313	WS-002(SURFACE)070413	WS-002(SURFACE)070513	WS-002(SURFACE)070613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		7/7/2013	7/8/2013	7/9/2013	7/10/2013	7/11/2013	7/12/2013	7/13/2013	7/14/2013	7/15/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)070713	WS-002(SURFACE)070813	WS-002(SURFACE)070913	WS-002(SURFACE)071013	WS-002(SURFACE)071113	WS-002(SURFACE)071213	WS-002(SURFACE)071313	WS-002(SURFACE)071413	WS-002(SURFACE)071513
Validation Level		Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	69	72	73	71	75	73	76	75	90
Dissolved Oxygen	mg/l	2.53	2.15	2.68	3.91	1.58	4.15	3.62	3.3	3.81
pH	SU	6.38	6.13	5.75	6.68	6.21	6.68	6.73	6.92	7.58
Temperature	deg C	29.05	29.35	29.12	30.06	29.11	29.56	29.31	28.67	30.88
Turbidity	NTU	14	16.4	11.9	10.2	16	31.8	10.3	10.4	22.4
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0068 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0084 UB
Barium - Total	mg/L	0.0215	0.0299	0.0214	0.0195	0.0449	0.0281	0.0568	0.0561	0.0294
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.51 J	5.82	6.03	5.65	5.65	6.14 J	6.18 J	6.54 J	5.78
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.57 J	2.64	2.79 J	2.57	2.65	2.82 J	2.83 J	2.93 J	2.65
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0016 J	0.0022 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	24.4	25.4	26.5	24.7	25.0	27.0	27.1	28.4	25.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	0.014 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	0.014 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Naphthalene - Total	ug/l	0.15	< 0.053 U	< 0.051 U	0.036 J	0.21	0.11	0.23	< 0.054 U	< 0.099 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	0.014 J	< 0.054 U	< 0.054 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		7/7/2013	7/8/2013	7/9/2013	7/10/2013	7/11/2013	7/12/2013	7/13/2013	7/14/2013	7/15/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)070713	WS-002(SURFACE)070813	WS-002(SURFACE)070913	WS-002(SURFACE)071013	WS-002(SURFACE)071113	WS-002(SURFACE)071213	WS-002(SURFACE)071313	WS-002(SURFACE)071413	WS-002(SURFACE)071513
Validation Level		Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)071613	WS-002(SURFACE)071713	WS-002(SURFACE)071813	WS-002(SURFACE)071913	WS-002(SURFACE)072013	WS-002(SURFACE)072113	WS-002(SURFACE)072213	WS-002(SURFACE)072313	WS-002(SURFACE)072413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	89	81	102	94	88	85	79	84	79
Dissolved Oxygen	mg/l	5.9	7.6	9.69	4.5	3.33	2.98	4.57	3.82	3.79
pH	SU	7.33	8.45	9.25	7.82	7.39	7.45	8.06	7.45	7.08
Temperature	deg C	30.65	32.49	34.82	31.22	29.23	29.1	28.79	29.39	27.42
Turbidity	NTU	19.1	17.2	72.1	15.2	14.9	15.6	11.7	14	15.4
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0077 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0069 J
Barium - Dissolved	mg/l	< 0.0111 UB	0.0069	0.0059	< 0.0084 UB	< 0.0128 UB	0.0165	< 0.0164 UB	0.0173	0.0205
Barium - Total	mg/L	0.0305	0.0241	0.0500	0.0298	0.0344	0.0402	0.0295	0.0440	0.0474
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.05	5.71	6.31	5.95	6.33 J	6.30 J	5.91	6.21	5.81 J
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.83	2.64	2.87 J	2.72	2.90 J	2.89 J	2.76 J	2.67	2.66 J
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0017 J	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.8	25.1	27.6	26.1	27.7	27.6	26.1	26.5	25.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	0.014 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	0.012 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 UB	< 0.12 UB	< 0.052 UB	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	0.011 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	< 5.0 U	NA	NA	NA	NA	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)071613	WS-002(SURFACE)071713	WS-002(SURFACE)071813	WS-002(SURFACE)071913	WS-002(SURFACE)072013	WS-002(SURFACE)072113	WS-002(SURFACE)072213	WS-002(SURFACE)072313	WS-002(SURFACE)072413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	3.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)072513	WS-002(SURFACE)072613	WS-002(SURFACE)072713	WS-002(SURFACE)072813	WS-002(SURFACE)072913	WS-002(SURFACE)073013	WS-002(SURFACE)073113	WS-002(SURFACE)080113	WS-002(SURFACE)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	80	81	79	78	79	80	81	79	82
Dissolved Oxygen	mg/l	6.32	2.21	5.89	5.69	3.95	3.11	3.21	5.83	4.67
pH	SU	7.83	7.24	7.72	7.87	7.49	7.56	7.45	7.59	7.63
Temperature	deg C	28.75	27.42	29.52	27.64	27.89	27.63	27.69	28.6	29.06
Turbidity	NTU	12.7	16.7	17.5	12	13.1	18.4	14.7	15.8	15.3
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0161 UB	0.0179	< 0.0153 UB	< 0.0106 UB	< 0.0120 UB	< 0.0152 UB	< 0.0144 UB	< 0.0116 UB	0.0108
Barium - Total	mg/L	0.0316	0.0590	0.0361	< 0.0255 UB	< 0.0252 UB	0.0310	< 0.0276 UB	0.0279	0.0310
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.98	6.16	5.79	5.73 J	5.82	5.99	5.93	5.73	5.81
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.77	2.77	2.64	2.62 J	2.70	2.82 J	2.72	2.65	2.66
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J
Nickel - Total	mg/L	< 0.0100 U	0.0018 J	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	0.0021 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.3	26.8	25.3	25.1	25.7	26.5	26.0	25.2	25.5
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.059 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.0 J	3.1 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)072513	WS-002(SURFACE)072613	WS-002(SURFACE)072713	WS-002(SURFACE)072813	WS-002(SURFACE)072913	WS-002(SURFACE)073013	WS-002(SURFACE)073113	WS-002(SURFACE)080113	WS-002(SURFACE)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)080313	WS-002(SURFACE)080413	WS-002(SURFACE)080513	WS-002(SURFACE)080613	WS-002(SURFACE)080713	WS-002(SURFACE)080813	WS-002(SURFACE)080913	WS-002(SURFACE)081013	WS-002(SURFACE)081113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	82	82	85	81	85	85	88	86	86
Dissolved Oxygen	mg/l	4.24	3.82	2.62	4.51	6.9	4.02	2.62	4.49	4.76
pH	SU	7.58	7.52	7.32	7.56	8.02	7.6	7.16	7.43	7.49
Temperature	deg C	29.2	28.85	28.93	29.45	31.04	30.67	29.77	29.62	29.6
Turbidity	NTU	17.4	9.2	22.2	18.1	24.3	23.6	14	21.2	23.9
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0092 J
Arsenic - Total	mg/L	< 0.0200 U	0.0077 J	< 0.0200 U	0.0098 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0069 UB	0.0095	0.0090	0.0108	0.0085	0.0108	0.0142	0.0135	0.0113
Barium - Total	mg/L	0.0286	0.0203	0.0229	0.0293	0.0363	0.0283	0.0542	0.0460	0.0329
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0026 J
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.87	5.71	5.99	5.68	5.87	5.97	6.23	6.29	6.33
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.72	2.69	2.72	2.64	2.64	2.73	2.81	2.86	2.91
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0016 J	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	25.9	25.3	26.2	25.1	25.5	26.2	27.1	27.5	27.8
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.057 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.7 J	2.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)080313	WS-002(SURFACE)080413	WS-002(SURFACE)080513	WS-002(SURFACE)080613	WS-002(SURFACE)080713	WS-002(SURFACE)080813	WS-002(SURFACE)080913	WS-002(SURFACE)081013	WS-002(SURFACE)081113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)081213	WS-002(SURFACE)081313	WS-002(SURFACE)081413	WS-002(SURFACE)081513	WS-002(SURFACE)081613	WS-002(SURFACE)081713	WS-002(SURFACE)081813	WS-002(SURFACE)081913	WS-002(SURFACE)082013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	89	87	82	81	80	77	77	79	82
Dissolved Oxygen	mg/l	1.79	1.76	3.59	5.16	6.72	6.08	5.29	4.7	6.85
pH	SU	7.09	7.02	7.2	7.57	7.92	7.18	7.69	7.81	8.79
Temperature	deg C	29.32	28.6	27.45	26.55	26.56	24.96	25.57	26.43	29.37
Turbidity	NTU	13.8	12.5	30.8	17.1	16.7	47.9	15.4	15.5	38.1
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0073 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0168 J
Barium - Dissolved	mg/l	0.0137	0.0214	0.0162	0.0174	0.0141	0.0162	0.0132	< 0.0141 UB	0.0229
Barium - Total	mg/L	0.0314	0.0518	0.0537	0.0390	0.0459	0.0403	0.0386	0.0306	0.176
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.43	6.46	6.49	6.16	6.00	6.05	6.11	6.13	8.41
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0016 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	< 0.0150 U	0.0036 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0062 J
Magnesium - Total	mg/l	2.91	2.96	3.01	2.83	2.74	2.84	2.79	2.85	3.56
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0036 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0043 J
Other										
Hardness (as CaCO3)	mg/l	28.0	28.3	28.6	27.0	26.3	26.8	26.8	27.0	35.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	0.013 J	< 0.052 U	< 0.057 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.018 J	0.019 J	< 0.052 U	< 0.057 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	0.025 J	< 0.052 U	< 0.057 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	0.018 J	< 0.052 U	< 0.057 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	0.034 J	< 0.052 U	< 0.057 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.057 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	1.0	< 0.052 U	< 0.057 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	1.9 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)081213	WS-002(SURFACE)081313	WS-002(SURFACE)081413	WS-002(SURFACE)081513	WS-002(SURFACE)081613	WS-002(SURFACE)081713	WS-002(SURFACE)081813	WS-002(SURFACE)081913	WS-002(SURFACE)082013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	4.1 J
Allyl chloride	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.1 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.5 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)082113	WS-002(SURFACE)082213	WS-002(SURFACE)082313	WS-002(SURFACE)082413	WS-002(SURFACE)082513	WS-002(SURFACE)082613	WS-002(SURFACE)082713	WS-002(SURFACE)082813	WS-002(SURFACE)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	81	83	80	98	102	97	99	68	104
Dissolved Oxygen	mg/l	3.92	4.93	6.07	4.62	3.68	5.18	NA	4.02	3.57
pH	SU	7.95	7.78	6.6	7.85	7.12	NA	NA	8.44	6.61
Temperature	deg C	29.21	30.58	28.21	30.26	26.46	29.79	29.19	30.35	29.99
Turbidity	NTU	12	10.3	13.2	NA	NA	NA	NA	9.7	5
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0084 J	0.0074 J	0.0069 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0078 UB	0.0092	0.0122	0.0106	0.0080	0.0067	0.0119	0.0117	0.0123
Barium - Total	mg/L	0.0713	0.0210	0.0309	0.0811	0.0209	0.0195	0.0250	0.0226	0.0226
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.95	6.01	6.25	7.04	6.32	6.34	6.39	6.59	6.62
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.94	2.79	2.91	3.02	2.89	2.78	2.92	2.97	2.85
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	29.5	26.5	27.6	30.0	27.7	27.3	28.0	28.7	28.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)082113	WS-002(SURFACE)082213	WS-002(SURFACE)082313	WS-002(SURFACE)082413	WS-002(SURFACE)082513	WS-002(SURFACE)082613	WS-002(SURFACE)082713	WS-002(SURFACE)082813	WS-002(SURFACE)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)083013	WS-002(SURFACE)083113	WS-002(SURFACE)090113	WS-002(SURFACE)090213	WS-002(SURFACE)090313	WS-002(SURFACE)090413	WS-002(SURFACE)090513	WS-002(SURFACE)090613	WS-002(SURFACE)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	72	71	72	71	72	75	74	74	75
Dissolved Oxygen	mg/l	2.65	3.68	2.6	2.87	3.93	4.01	6.48	5.73	6.07
pH	SU	8.39	8.21	8.22	8.03	8.18	8.48	9.2	8.63	8.25
Temperature	deg C	30.68	30.65	30.17	29.98	29.56	29.75	30.93	30.28	28.96
Turbidity	NTU	5.4	11.2	6.2	6.5	15.1	9.7	10.4	8	6.5
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0068 J	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0114	0.0121	0.0127	0.0119	0.0097	0.0102	0.0093	0.0111	0.0126
Barium - Total	mg/L	0.0261	0.0228	0.0237	0.0312	0.0351	0.0645	0.0394	0.0345	0.0308
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.87	6.68	6.67	6.56	6.85	7.31	7.16	6.90	7.21
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.98	3.01	2.96	3.00	3.08	3.18	3.20	3.07	3.15
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	0.000064 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	29.4	29.1	28.8	28.7	29.8	31.3	31.0	29.9	31.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	0.016 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	0.013 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.9 J	2.0 J	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)083013	WS-002(SURFACE)083113	WS-002(SURFACE)090113	WS-002(SURFACE)090213	WS-002(SURFACE)090313	WS-002(SURFACE)090413	WS-002(SURFACE)090513	WS-002(SURFACE)090613	WS-002(SURFACE)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	3.3 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)090813	WS-002(SURFACE)090913	WS-002(SURFACE)091013	WS-002(SURFACE)091113	WS-002(SURFACE)091213	WS-002(SURFACE)091313	WS-002(SURFACE)091413	WS-002(SURFACE)091513	WS-002(SURFACE)091613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	76	75	72	75	76	74	75	75	75
Dissolved Oxygen	mg/l	2.58	5.46	1.75	2.16	3.51	3.11	2.6	2.63	4.29
pH	SU	8.15	8.56	7.82	7.16	8.26	7.65	8.06	8.17	8.7
Temperature	deg C	29.79	30.16	29.19	30.43	29.82	28.45	26.63	26.75	26.15
Turbidity	NTU	2.9	7.8	3.1	2.2	6.8	6.1	9.6	10.3	8.1
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0080 J	< 0.0200 U	0.0085 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0150	0.0109	0.0236	< 0.0153 UB	0.0143	0.0136	0.0160	0.0246	0.0206
Barium - Total	mg/L	0.0271	0.0357	0.0545	0.0329	0.0456	0.0791	0.0498	0.0536	0.0585
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.22	7.53	7.12	7.35	7.78	7.45	7.09	7.09	7.07
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.17	3.42	3.15	3.28	3.31	3.30	3.21	3.19	3.18
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0036 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	31.1	32.9	30.8	31.9	33.1	32.2	30.9	30.8	30.8
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 UB	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.1 J	< 5.0 U	1.7 J	< 5.0 U	2.0 J	< 5.0 UB	2.0 J	< 5.0 U	1.8 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)090813	WS-002(SURFACE)090913	WS-002(SURFACE)091013	WS-002(SURFACE)091113	WS-002(SURFACE)091213	WS-002(SURFACE)091313	WS-002(SURFACE)091413	WS-002(SURFACE)091513	WS-002(SURFACE)091613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)091713	WS-002(SURFACE)091813	WS-002(SURFACE)091913	WS-002(SURFACE)092013	WS-002(SURFACE)092113	WS-002(SURFACE)092213	WS-002(SURFACE)092313	WS-002(SURFACE)092413	WS-002(SURFACE)092513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	74	75	74	74	74	73	75	74	74
Dissolved Oxygen	mg/l	5.15	6.25	6.21	2.15	2.99	5.59	3.21	3.28	5.2
pH	SU	8.51	8.87	8.67	8.03	7.79	8.27	8.55	8.49	8.23
Temperature	deg C	27.06	27.1	27.06	26.6	24.53	24.12	24.41	24.51	24.64
Turbidity	NTU	12.6	9.1	8.9	10	7.9	9.1	10.7	10.1	9.8
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0077 J	< 0.0200 U	< 0.0200 U	0.0081 J	0.0070 J	< 0.0200 U	0.0079 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0188	0.0157	0.0228	< 0.0226 UB	0.0225	0.0214	0.0218	0.0195	0.0204
Barium - Total	mg/L	0.0628	0.0285	0.0551	0.0674	0.0614	0.0552	0.0651	0.0348	0.0467
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.55	6.77	7.33	6.85	7.07	6.99	7.30	6.77	7.10
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.38	3.02	3.29	3.13	3.30	3.20	3.32	3.08	3.19
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	32.8	29.3	31.8	30.0	31.2	30.6	31.9	29.6	30.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	0.011 J	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)091713	WS-002(SURFACE)091813	WS-002(SURFACE)091913	WS-002(SURFACE)092013	WS-002(SURFACE)092113	WS-002(SURFACE)092213	WS-002(SURFACE)092313	WS-002(SURFACE)092413	WS-002(SURFACE)092513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)092613	WS-002(SURFACE)092713	WS-002(SURFACE)092813	WS-002(SURFACE)092913	WS-002(SURFACE)093013	WS-002(SURFACE)100113	WS-002(SURFACE)100213	WS-002(SURFACE)100313	WS-002(SURFACE)100413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	74	74	75	74	73	75	73	79	75
Dissolved Oxygen	mg/l	3.21	4.21	2.57	2.66	4.3	1.69	3.78	1.69	2.05
pH	SU	8.63	8.41	8.24	7.45	8.52	7.72	7.87	7.79	8.15
Temperature	deg C	25.63	25.86	25.29	25.39	25.31	25.13	25.08	24.82	25.45
Turbidity	NTU	10.9	5.5	5.5	7.2	6	9.2	8.6	11.4	12.1
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0075 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0188	0.0170	0.0199	0.0195	< 0.0187 UB	0.0202	0.0262	0.0251	0.0231
Barium - Total	mg/L	0.0514	0.0296	0.0471	0.0438	0.0823	0.0624	0.0428	0.0593	0.0411
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.20	6.44	6.83	6.75	6.96	6.80	6.72	6.75	6.57
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.21	2.99	3.14	3.16	3.25	3.16	3.13	3.17	3.07
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0026 J	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	31.2	28.4	30.0	29.9	30.7	30.0	29.7	29.9	29.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.037 J	< 0.063 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.061 U	< 0.063 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	2.0 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)092613	WS-002(SURFACE)092713	WS-002(SURFACE)092813	WS-002(SURFACE)092913	WS-002(SURFACE)093013	WS-002(SURFACE)100113	WS-002(SURFACE)100213	WS-002(SURFACE)100313	WS-002(SURFACE)100413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)100513	WS-002(SURFACE)100613	WS-002(SURFACE)100713	WS-002(SURFACE)100813	WS-002(SURFACE)100913	WS-002(SURFACE)101013	WS-002(SURFACE)101113	WS-002(SURFACE)101213	WS-002(SURFACE)101313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	78	NA	NA	NA	85	82	84	83	80
Dissolved Oxygen	mg/l	1.89	NA	NA	NA	4.37	5.32	3.71	5.73	4.69
pH	SU	7.91	NA	NA	NA	7.39	7.68	7.08	7.15	6.85
Temperature	deg C	25.14	NA	NA	NA	22.4	22.01	21.8	22.29	21.8
Turbidity	NTU	11.7	NA	NA	NA	18.5	19	17.5	15.9	17
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0232	0.0224	0.0193	0.0181	0.0207	0.0169	0.0184	0.0183	0.0175
Barium - Total	mg/L	0.0437	0.0510	0.0416	0.0463	0.0370	0.0343	0.0351	0.0312	0.0373
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.52	6.18	5.93	5.99	5.80	5.57	5.62	5.15	5.67
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.00	2.91	2.85	2.88	2.82	2.69	2.72	2.53	2.75
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	28.6	27.4	26.5	26.8	26.1	25.0	25.2	23.3	25.5
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.024 J	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.029 J	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.023 J	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.054 U	0.11	< 0.050 U	< 0.051 U	< 0.051 U	0.064	< 0.050 U	< 0.051 U	< 0.055 UB
Phenanthrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)100513	WS-002(SURFACE)100613	WS-002(SURFACE)100713	WS-002(SURFACE)100813	WS-002(SURFACE)100913	WS-002(SURFACE)101013	WS-002(SURFACE)101113	WS-002(SURFACE)101213	WS-002(SURFACE)101313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)101413	WS-002(SURFACE)101513	WS-002(SURFACE)101613	WS-002(SURFACE)101713	WS-002(SURFACE)101813	WS-002(SURFACE)101913	WS-002(SURFACE)102013	WS-002(SURFACE)102113	WS-002(SURFACE)102213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	84	83	79	80	83	76	76	80	78
Dissolved Oxygen	mg/l	3.61	3.59	3.5	4.86	5.02	4.4	4.24	3.77	5.25
pH	SU	6.82	7	6.89	7.13	7.26	6.93	7.13	7	6.46
Temperature	deg C	20.92	20.94	19.9	19.71	21.05	18.05	18.37	17.92	17.61
Turbidity	NTU	13.9	14.3	13.3	17.1	7.7	21.6	24.2	15.8	16.5
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0167	0.0233	0.0186	0.0158	0.0157	0.0172	0.0168	0.0169	0.0183
Barium - Total	mg/L	0.0337	0.0360	0.0323	0.0311	0.0295	0.0334	0.0358	0.0271	0.0277
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.48	5.60	4.90	5.04	4.66	4.68	4.80	4.61	4.60
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.72	2.71	2.43	2.48	2.33	2.35	2.42	2.30	2.32
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	24.9	25.2	22.2	22.8	21.2	21.4	22.0	21.0	21.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 UB	< 0.052 U	< 0.051 UB	< 0.051 U	0.050 J	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.7 J	3.4 J	< 5.0 U	< 5.0 U	2.7 J	1.8 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002
Sample Date		10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)101413	WS-002(SURFACE)101513	WS-002(SURFACE)101613	WS-002(SURFACE)101713	WS-002(SURFACE)101813	WS-002(SURFACE)101913	WS-002(SURFACE)102013	WS-002(SURFACE)102113	WS-002(SURFACE)102213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-003
Sample Date		10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013	3/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)102313	WS-002(SURFACE)102413	WS-002(SURFACE)102513	WS-002(SURFACE)102613	WS-002(SURFACE)102713	WS-002(SURFACE)102813	WS-002(SURFACE)102913	WS-002(SURFACE)103013	WS-002(SURFACE)103113	RRS330SW3
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	75	76	75	75	74	74	76	80	NA
Dissolved Oxygen	mg/l	5.46	5.64	4.27	4.24	5.21	4.26	3.9	4.69	5.05	NA
pH	SU	6.47	6.54	6.56	6.85	7.5	7.04	6.64	6.69	6.43	NA
Temperature	deg C	16.36	16.63	15.35	15.18	14.07	16.01	16.24	16.76	17.6	NA
Turbidity	NTU	18.5	19.8	19.6	17	20	15.9	19.4	41.6	21.5	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0100 U
Barium - Dissolved	mg/l	0.0157	0.0159	0.0166	0.0155	0.0159	0.0168	0.0167	0.0167	0.0162	NA
Barium - Total	mg/L	0.0286	0.0285	0.0243	0.0229	0.0249	0.0234	0.0235	0.0231	0.0236	0.0225
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.41	4.22	4.30	4.52	4.27	4.44	4.18	4.17	4.16	NA
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0050 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0053 J	< 0.0050 U
Magnesium - Total	mg/l	2.25	2.12	2.17	2.25	2.18	2.22	2.10	2.09	2.13	NA
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA
Nickel - Total	mg/L	< 0.0100 U	0.0019 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0150 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0070 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA
Other											
Hardness (as CaCO3)	mg/l	20.3	19.3	19.7	20.5	19.6	20.2	19.1	19.0	19.1	NA
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	NA
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	NA
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.53 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.53 U
Pyrene - Total	ug/l	< 0.050 U	0.031 J	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.11 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 500 U
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200 U
Oil & Grease	mg/l	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	4.4 J	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 500 U
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.5 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-002	WS-003
Sample Date		10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013	3/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-002(SURFACE)102313	WS-002(SURFACE)102413	WS-002(SURFACE)102513	WS-002(SURFACE)102613	WS-002(SURFACE)102713	WS-002(SURFACE)102813	WS-002(SURFACE)102913	WS-002(SURFACE)103013	WS-002(SURFACE)103113	RRS330SW3
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0 U
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0 U
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0 U
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0 U
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Vinyl Chloride	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 3.0 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/6/2013	4/7/2013	4/8/2013	4/9/2013	4/10/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		RRS331SW3	RRS41SW3	RRS42SW3	RRS43SW3	RRS44SW3	WS-003-04052013(SURFACE)	WS-003-04062013(SURFACE)	WS-DUP1-04062013	WS-003-04072013(SURFACE)	WS-003(SURFACE)040813	WS-003(SURFACE)040913	WS-003(SURFACE)041013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
FIELD													
Conductivity	uS/cm	NA	NA	NA	NA	NA	70.6	70	NA	63	94	68	88
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	11.48 *	9.22	NA	6.3	5.17	5.31	5.02
pH	SU	NA	NA	NA	NA	NA	6	6.99	NA	6.03	5.51	6.02	5.97
Temperature	deg C	NA	NA	NA	NA	NA	12	14.54	NA	14.84	16.44	17.53	20
Turbidity	NTU	NA	NA	NA	NA	NA	10.7	5	NA	9.8	4.9	5.6	0
Metals													
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0100 U	< 0.0100 U	NA	NA	< 0.0100 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0201	0.0263	NA	NA	0.0154	0.0169	0.0174	0.0174	0.0249	0.0201	0.0195	0.0174
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	NA	NA	NA	NA	NA	3.06	2.93	2.98	3.10	3.20	3.16	2.96
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	NA	NA	NA	NA	NA	1.53	1.40	1.44	1.54	1.54	1.54	1.47
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	NA	NA	NA	NA	< 0.0050 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	0.0011 J	< 0.0100 UB
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0150 U	< 0.0150 U	NA	NA	< 0.0150 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0070 U	< 0.0070 U	NA	NA	< 0.0070 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	NA	NA	NA	NA	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J
Other													
Hardness (as CaCO3)	mg/l	NA	NA	NA	NA	NA	13.9	13.1	13.4	14.1	14.4	14.3	13.4
PAHs-SIM													
1-Methylnaphthalene - Total	ug/l	NA	NA	NA	NA	NA	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
2-Methylnaphthalene - Total	ug/l	NA	NA	NA	NA	NA	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Acenaphthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Acenaphthylene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Anthracene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Benzo(a)Anthracene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Benzo(a)Pyrene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Chrysene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Fluoranthene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	0.012 J	< 0.053 U	< 0.060 U
Fluorene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Naphthalene - Total	ug/l	< 0.50 U	< 0.54 U	< 0.55 U	< 0.53 U	< 0.68 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Phenanthrene - Total	ug/l	< 0.50 U	< 0.54 U	< 0.55 U	< 0.53 U	< 0.68 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
Pyrene - Total	ug/l	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.060 U
TPH													
Diesel C10-C28	ug/L	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	< 200 U	< 200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	NA
TPH C28-C35	ug/L	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs													
1,1,1,2-Tetrachloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/6/2013	4/7/2013	4/8/2013	4/9/2013	4/10/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		RRS331SW3	RRS41SW3	RRS42SW3	RRS43SW3	RRS44SW3	WS-003-04052013(SURFACE)	WS-003-04062013(SURFACE)	WS-DUP1-04062013	WS-003-04072013(SURFACE)	WS-003(SURFACE)040813	WS-003(SURFACE)040913	WS-003(SURFACE)041013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
1,2-Dibromoethane (EDB)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	0.4 J	0.4 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 0.5 U	0.8	0.8	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		4/11/2013	4/12/2013	4/13/2013	4/14/2013	4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)041113	WS-003(SURFACE)041213	WS-003(SURFACE)041313	WS-003(SURFACE)041413	WS-003(SURFACE)041513	WS-003(SURFACE)041613	WS-003(SURFACE)041713	WS-003(SURFACE)041813	WS-003(SURFACE)041913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	51	67	56	98	154	67	134	58	61
Dissolved Oxygen	mg/l	5.37	5.06	5.41	5.34	12.74 *	6.01	3.09	3.81	5.01
pH	SU	5.97	5.88	7.11	5.55	5.69	5.96	5.45	5.64	5.51
Temperature	deg C	16.9	15.85	16.23	17.39	18.72	20.52	23.01	23.27	18.57
Turbidity	NTU	7.6	5	6.7	2.9	0.9	9.3	15.5	36.4	24.3
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0221	0.0196	0.0182	0.0197	0.0191	0.0196	0.0226	0.0261	0.0197
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.13	3.05	3.07	3.36	3.06	3.11	3.24	3.36	3.10
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0015 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.59 J	1.47	1.45	1.65 J	1.53	1.58	1.61	1.71	1.55
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0016 J	0.0020 J	0.0021 J	0.0012 J	0.0027 J	0.0019 J	0.0013 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0025 J	0.0015 J
Other										
Hardness (as CaCO3)	mg/l	14.3	13.7	13.6	15.2	13.9	14.3	14.7	15.4	14.1
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.053 U	0.076	< 0.052 U	0.040 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	< 5.0 U	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		4/11/2013	4/12/2013	4/13/2013	4/14/2013	4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)041113	WS-003(SURFACE)041213	WS-003(SURFACE)041313	WS-003(SURFACE)041413	WS-003(SURFACE)041513	WS-003(SURFACE)041613	WS-003(SURFACE)041713	WS-003(SURFACE)041813	WS-003(SURFACE)041913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		4/20/2013	4/21/2013	4/22/2013	4/23/2013	4/24/2013	4/25/2013	4/25/2013	4/26/2013	4/27/2013	4/28/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)042013	WS-003(SURFACE)042113	WS-003(SURFACE)042213	WS-003(SURFACE)042313	WS-003(SURFACE)042413	WS-003(SURFACE)042513	WS-DUP-14-042513	WS-003(SURFACE)042613	WS-003(SURFACE)042713	WS-003(SURFACE)042813
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	53	52	198	172	170	181	NA	180	174	182
Dissolved Oxygen	mg/l	4.6	5.79	5.97	6.99	7.62	7.13	NA	5.99	6.63	6.4
pH	SU	7.07	7.08	5.64	6.92	7.38	8.55	NA	7.25	6.93	6.85
Temperature	deg C	18.34	18.51	19.27	20.15	18.41	18.53	NA	20.07	18.78	19.6
Turbidity	NTU	12	0.8	5.1	5.1	202	20	NA	4.6	20.9	4.7
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0226 J	0.0207	0.0220	0.0210	0.0364	0.0209	0.0218	0.0211	0.0233	0.0219
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.04 J	3.14	3.05	3.09 J	3.27	3.12	3.20	3.01	3.23	3.05
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0020 J	0.0014 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.54	1.61	1.56	1.56	1.76	1.58	1.66	1.48	1.64	1.56
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0019 J	0.0012 J	0.0018 J	0.0017 J	0.0021 J	0.0015 J	0.0019 J	0.0017 J	0.0018 J	0.0012 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0015 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0029 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	13.9	14.5	14.0	14.2	15.4	14.3	14.8	13.6	14.8	14.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 UJ	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 UJ	< 0.053 UJ	< 0.052 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	0.066	0.040 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	< 5.0 U	NA	< 5.0 U	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		4/20/2013	4/21/2013	4/22/2013	4/23/2013	4/24/2013	4/25/2013	4/25/2013	4/26/2013	4/27/2013	4/28/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)042013	WS-003(SURFACE)042113	WS-003(SURFACE)042213	WS-003(SURFACE)042313	WS-003(SURFACE)042413	WS-003(SURFACE)042513	WS-DUP-14-042513	WS-003(SURFACE)042613	WS-003(SURFACE)042713	WS-003(SURFACE)042813
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		4/29/2013	4/30/2013	5/1/2013	5/2/2013	5/3/2013	5/4/2013	5/5/2013	5/6/2013	5/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)042913	WS-003(SURFACE)043013	WS-003(SURFACE)050113	WS-003(SURFACE)050213	WS-003(SURFACE)050313	WS-003(SURFACE)050413	WS-003(SURFACE)050513	WS-003(SURFACE)050613	WS-003(SURFACE)050713
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	193	120	58	58	51	55	48	61	53
Dissolved Oxygen	mg/l	5.07	5.25	5.98	7.25	7.16	5.5	7.99	15.11	15.28
pH	SU	7.16	5.67	7.67	7.62	7.43	7.55	7.05	5.92	7.15
Temperature	deg C	19.25	22.83	23.18	22.89	19.55	16.69	15.91	16.85	20.56
Turbidity	NTU	0	0	0	7.27	54.3	20.7	43.5	146	61
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0660	0.0244	0.0202	0.0230	0.0346	0.0214	0.0238	0.0272	0.0285
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.78	3.32	3.10	3.20	3.53	3.34	3.24	3.35	3.30
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0053 J	0.0012 J	< 0.0150 U	< 0.0150 U	0.0013 J	< 0.0150 U	0.0018 J	0.0018 J	0.0014 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0206	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.62	1.68	1.55	1.64 J	1.91	1.69	1.62	1.80	1.72
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0052 J	0.0017 J	0.0012 J	0.0017 J	0.0025 J	0.0011 J	0.0013 J	0.0021 J	0.0023 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0095	0.0015 J	0.0015 J	0.0014 J	0.0033 J	0.0016 J	0.0017 J	0.0021 J	0.0030 J
Other										
Hardness (as CaCO3)	mg/l	20.2	15.2	14.1	14.7	16.7	15.3	14.8	15.8	15.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Chrysene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Fluorene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.058 U	< 0.062 U	< 0.056 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	< 5.0 UB	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		4/29/2013	4/30/2013	5/1/2013	5/2/2013	5/3/2013	5/4/2013	5/5/2013	5/6/2013	5/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)042913	WS-003(SURFACE)043013	WS-003(SURFACE)050113	WS-003(SURFACE)050213	WS-003(SURFACE)050313	WS-003(SURFACE)050413	WS-003(SURFACE)050513	WS-003(SURFACE)050613	WS-003(SURFACE)050713
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		5/8/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/13/2013	5/14/2013	5/15/2013	5/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)050813	WS-003(SURFACE)050913	WS-003(SURFACE)051013	WS-003(SURFACE)051113	WS-003(SURFACE)051213	WS-003(SURFACE)051313	WS-003(SURFACE)051413	WS-003(SURFACE)051513	WS-003(SURFACE)051613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	13	66	98	55	59	59	82	55	66
Dissolved Oxygen	mg/l	6.99	4.53	5	7.67	6.54	4.65	5.78	5.82	5.65
pH	SU	5.33	6.05	5.13	6.8	5.51	7.08	5.07	6.99	5.85
Temperature	deg C	20.8	19.8	22.17	22.5	21.94	22	22.96	23.41	23.42
Turbidity	NTU	17	11.7	29.8	50.3	57.8	29.5	20.68	33.4	44.8
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0198	0.0266	0.0269	0.0250	0.0246	0.0232	0.0201	0.0224	0.0202
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.27	3.58	3.48	3.44	3.54	3.38	3.52	3.53	3.51
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0013 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0012 J	0.0011 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0051 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.65 J	1.85	1.82	1.79	1.78	1.77	1.77 J	1.78	1.74
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0015 J	0.0013 J	0.0018 J	0.0021 J	0.0015 J	0.0019 J	< 0.0100 U	0.0014 J	0.0014 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	0.0018 J	0.0017 J	0.0013 J	< 0.0050 U	0.0019 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	14.9	16.5	16.2	16.0	16.2	15.7	16.1	16.1	15.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	0.069	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	0.13	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	0.17	< 0.055 U	0.049 J	0.10	0.12	0.043 J	< 0.051 U	0.21	0.036 J
Phenanthrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 UB	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.7	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		5/8/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/13/2013	5/14/2013	5/15/2013	5/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)050813	WS-003(SURFACE)050913	WS-003(SURFACE)051013	WS-003(SURFACE)051113	WS-003(SURFACE)051213	WS-003(SURFACE)051313	WS-003(SURFACE)051413	WS-003(SURFACE)051513	WS-003(SURFACE)051613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	0.6	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1.1	0.2 J	0.1 J	< 0.5 U	0.1 J	0.2 J	< 0.5 U	0.2 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	1.6	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		5/17/2013	5/18/2013	5/19/2013	5/20/2013	5/21/2013	5/22/2013	5/23/2013	5/24/2013	5/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)051713	WS-003(SURFACE)051813	WS-003(SURFACE)051913	WS-003(SURFACE)052013	WS-003(SURFACE)052113	WS-003(SURFACE)052213	WS-003(SURFACE)052313	WS-003(SURFACE)052413	WS-003(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	79	67	63	66	60	85	61	59	119
Dissolved Oxygen	mg/l	4.31	5.52	5.93	3.27	4.62	4.63	5.49	6.27	5.39
pH	SU	6.19	6.12	5.81	6.59	6.62	6.85	7.19	6.67	6.9
Temperature	deg C	23.5	25.61	25.82	25.47	25.03	22.69	23.96	25.08	23.31
Turbidity	NTU	47.2	16.8	24.6	45	51.6	41.9	34	92.4	53
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0069 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0243	0.0175	0.0151	0.0255	0.0205	0.0197	0.0208 J	0.0667	0.0178
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.69	3.60	3.59	4.02	3.77	3.81	3.99	4.34	3.54
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0014 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0069 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0228	< 0.0150 U
Magnesium - Total	mg/l	1.82	1.78	1.77	1.96	1.92	1.79 J	1.96	3.03 J	1.71
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0017 J	0.0015 J	< 0.0100 U	0.0011 J	< 0.0100 U	0.0012 J	0.0023 J	0.0073 J	0.0013 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 U	0.0106	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	16.7	16.3	16.3	18.1	17.3	16.9	18.0	23.3	15.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.061	< 0.052 U	< 0.051 U	0.067	< 0.051 U	< 0.051 U	0.056	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		5/17/2013	5/18/2013	5/19/2013	5/20/2013	5/21/2013	5/22/2013	5/23/2013	5/24/2013	5/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)051713	WS-003(SURFACE)051813	WS-003(SURFACE)051913	WS-003(SURFACE)052013	WS-003(SURFACE)052113	WS-003(SURFACE)052213	WS-003(SURFACE)052313	WS-003(SURFACE)052413	WS-003(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.2 J	0.1 J	0.2 J	< 0.5 U	< 0.5 U	0.2 J	0.6	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	0.1 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		5/26/2013	5/27/2013	5/28/2013	5/29/2013	5/30/2013	5/31/2013	6/1/2013	6/2/2013	6/3/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)052613	WS-003(SURFACE)052713	WS-003(SURFACE)052813	WS-003(SURFACE)052913	WS-003(SURFACE)053013	WS-003(SURFACE)053113	WS-003(SURFACE)060113	WS-003(SURFACE)060213	WS-003(SURFACE)060313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	60	76	64	46	70	65	133	64	67
Dissolved Oxygen	mg/l	5.05	4.83	4.5	4.66	4.17	4.95	4.3	5.4	6.38
pH	SU	7.15	7.16	7.04	6.84	6.11	7.4	6.68	7.24	7.33
Temperature	deg C	25.22	26.64	26.26	26.77	27.44	26.12	26.87	25.88	24.74
Turbidity	NTU	50	33.2	36.5	42.3	52.8	54.5	45.4	158	148
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0187	0.0176	0.0195	0.0191	0.0249	0.0237	0.0215	0.0327	0.0262
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.85	3.79	3.93	3.97	4.24	4.11	3.83	4.02	4.20
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0021 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.82	1.85	1.86	1.92	1.98 J	1.93	1.83	2.09	2.01
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0015 J	0.0018 J	< 0.0100 U	0.0011 J	0.0017 J	0.0012 J	0.0016 J	0.0019 J	0.0014 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0032 J	0.0016 J
Other										
Hardness (as CaCO3)	mg/l	17.1	17.1	17.5	17.8	18.7	18.2	17.1	18.7	18.8
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	0.046 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	0.085	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.017 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.012 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	0.11	0.060	< 0.050 U	< 0.051 U	0.034 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.014 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.5 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		5/26/2013	5/27/2013	5/28/2013	5/29/2013	5/30/2013	5/31/2013	6/1/2013	6/2/2013	6/3/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)052613	WS-003(SURFACE)052713	WS-003(SURFACE)052813	WS-003(SURFACE)052913	WS-003(SURFACE)053013	WS-003(SURFACE)053113	WS-003(SURFACE)060113	WS-003(SURFACE)060213	WS-003(SURFACE)060313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.4 J	< 0.5 U	0.1 J	0.1 J	1.0	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.6	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		6/4/2013	6/5/2013	6/6/2013	6/7/2013	6/8/2013	6/9/2013	6/10/2013	6/11/2013	6/12/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)060413	WS-003(SURFACE)060513	WS-003(SURFACE)060613	WS-003(SURFACE)060713	WS-003(SURFACE)060813	WS-003(SURFACE)060913	WS-003(SURFACE)061013	WS-003(SURFACE)061113	WS-003(SURFACE)061213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	78	54	66	78	76	83	75	80	79
Dissolved Oxygen	mg/l	6.5	7.13	7.39	8.33	4.78	9.7	6.2	6.8	5.07
pH	SU	7.09	7.51	4.53	6.24	7.25	7.72	6.4	6.4	7.06
Temperature	deg C	25.38	27.11	27.44	25.66	27.23	26.63	25.26	27.01	27.94
Turbidity	NTU	58.1	167	119	56	18	16.8	12.2	17.2	9
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0181	0.0248	0.0208	0.0211	0.0210	0.0196	0.0192	0.0169	0.0172
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.13	4.19	4.12	4.40	4.15	4.19	4.57	4.28	4.47
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.88	2.04	1.95	2.08	1.99	2.01	2.13	1.99	2.21
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	0.000075 J	0.000077 J	< 0.00020 U	< 0.00020 UJ	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0012 J	0.0022 J	0.0015 J	0.0012 J	0.0012 J	0.0016 J	0.0013 J	0.0014 J	0.0011 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	18.1	18.9	18.3	19.6	18.6	18.8	20.2	18.9	20.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	0.011 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.017 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.13	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.21	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	0.015 J	< 0.051 U	0.42	0.021 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.13	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.13	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.24	0.014 J	< 0.052 U	0.011 J	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.041 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.013 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	0.15	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.055 U	0.035 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	0.031 J	0.012 J	< 0.051 U	0.075	0.014 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		6/4/2013	6/5/2013	6/6/2013	6/7/2013	6/8/2013	6/9/2013	6/10/2013	6/11/2013	6/12/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)060413	WS-003(SURFACE)060513	WS-003(SURFACE)060613	WS-003(SURFACE)060713	WS-003(SURFACE)060813	WS-003(SURFACE)060913	WS-003(SURFACE)061013	WS-003(SURFACE)061113	WS-003(SURFACE)061213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	0.1 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		6/13/2013	6/14/2013	6/15/2013	6/16/2013	6/17/2013	6/18/2013	6/19/2013	6/20/2013	6/21/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)061313	WS-003(SURFACE)061413	WS-003(SURFACE)061513	WS-003(SURFACE)061613	WS-003(SURFACE)061713	WS-003(SURFACE)061813	WS-003(SURFACE)061913	WS-003(SURFACE)062013	WS-003(SURFACE)062113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	51	73	74	74	65	77	96	80	52
Dissolved Oxygen	mg/l	6.05	4.45	4.6	4.54	4.2	4.52	3.91	5.38	4.4
pH	SU	6.65	5.67	5.79	6.29	6.58	6.96	6.53	7.09	6.15
Temperature	deg C	28.84	28.73	29.39	29.51	29.2	28.64	28.67	29.07	29.54
Turbidity	NTU	25.1	15.5	12.5	16.5	16	23.6	22.4	19.6	17.3
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0181	0.0220	0.0166	0.0171	0.0214	0.0297	0.0268	0.0182	0.0185
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	< 0.0050 U	< 0.0050 U	0.00038 J	< 0.0050 U	0.00043 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.36	4.77	4.64	4.67	5.21	5.12	5.13	5.20	5.21
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.10	2.25	2.19	2.24	2.39	2.43	2.43 J	2.41	2.42
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	0.0013 J	< 0.0100 U	0.0013 J	< 0.0100 U	0.0019 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	19.5	21.2	20.6	20.9	22.8	22.8	22.8	22.9	23.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	0.014 J	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	0.011 J	< 0.051 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	0.011 J	< 0.051 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		6/13/2013	6/14/2013	6/15/2013	6/16/2013	6/17/2013	6/18/2013	6/19/2013	6/20/2013	6/21/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)061313	WS-003(SURFACE)061413	WS-003(SURFACE)061513	WS-003(SURFACE)061613	WS-003(SURFACE)061713	WS-003(SURFACE)061813	WS-003(SURFACE)061913	WS-003(SURFACE)062013	WS-003(SURFACE)062113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.1 J	< 0.5 U	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		6/22/2013	6/23/2013	6/24/2013	6/25/2013	6/26/2013	6/27/2013	6/28/2013	6/29/2013	6/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)062213	WS-003(SURFACE)062313	WS-003(SURFACE)062413	WS-003(SURFACE)062513	WS-003(SURFACE)062613	WS-003(SURFACE)062713	WS-003(SURFACE)062813	WS-003(SURFACE)062913	WS-003(SURFACE)063013
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	80	81	115	85	91	96	87	86	85
Dissolved Oxygen	mg/l	4.24	3.9	3.01	2.11	2.66	2.52	2.6	3.02	4.36
pH	SU	5.88	5.93	6.85	6.35	6.27	6.37	6.7	6.4	5.84
Temperature	deg C	30.01	29.89	30.2	30.03	29.89	30.49	31.02	30.17	28.55
Turbidity	NTU	17.8	17.7	18	15.7	18.1	14	14.7	47.6	51.9
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0200	0.0233	0.0209	0.0262	0.0240	0.0243	0.0223	0.0328	0.0614
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0094	< 0.0050 U
Calcium - Total	mg/l	5.21	5.37	5.70	5.89	5.80	5.76	5.80	5.79	6.23
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0022 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0050 J	0.0070 J
Magnesium - Total	mg/l	2.40	2.47	2.63	2.64	2.64	2.61	2.63 J	2.70 J	3.09 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0039 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0034 J
Other										
Hardness (as CaCO3)	mg/l	22.9	23.6	25.0	25.6	25.4	25.1	25.3	25.6	28.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	0.014 J
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	0.015 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	0.025 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	0.011 J
Chrysene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	0.020 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	0.017 J
Fluorene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 UB	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	0.016 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		6/22/2013	6/23/2013	6/24/2013	6/25/2013	6/26/2013	6/27/2013	6/28/2013	6/29/2013	6/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)062213	WS-003(SURFACE)062313	WS-003(SURFACE)062413	WS-003(SURFACE)062513	WS-003(SURFACE)062613	WS-003(SURFACE)062713	WS-003(SURFACE)062813	WS-003(SURFACE)062913	WS-003(SURFACE)063013
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/1/2013	7/2/2013	7/3/2013	7/4/2013	7/5/2013	7/6/2013	7/7/2013	7/8/2013	7/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)070113	WS-003(SURFACE)070213	WS-003(SURFACE)070313	WS-003(SURFACE)070413	WS-003(SURFACE)070513	WS-003(SURFACE)070613	WS-003(SURFACE)070713	WS-003(SURFACE)070813	WS-003(SURFACE)070913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	83	72	73	68	71	61	73	70	72
Dissolved Oxygen	mg/l	4.36	3.79	4.37	4.71	3.04	3.61	2.56	4.49	3.22
pH	SU	6.89	5.98	6.19	6.33	5.11	6.18	5.78	5.58	5.51
Temperature	deg C	27.64	26.47	26.7	27.8	26.44	27.52	27.93	29.64	27.2
Turbidity	NTU	45.3	10.8	18.5	21.9	15.2	18.7	16.1	17	27.2
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0471	0.0253	0.0247	0.0303	0.0292	0.0214	0.0220	0.0190	0.0427
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.81	5.64 J	5.70	5.45	5.65	5.33 J	5.51 J	5.56	5.83
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0060 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.82	2.64	2.68	2.58	2.65	2.52 J	2.58 J	2.63	2.90 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0021 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	< 0.0100 U	0.0017 J	0.0037 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0028 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.1	25.0	25.3	24.2	25.0	23.7	24.4	24.7	26.5
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	0.025 J	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	0.026 J	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	0.011 J	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	0.012 J	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	0.011 J
Benzo(a)Pyrene - Total	ug/l	0.011 J	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.026 J	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	0.021 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Chrysene - Total	ug/l	0.017 J	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	0.013 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Naphthalene - Total	ug/l	0.16	0.034 J	0.048 J	0.098	0.54	0.037 J	0.19	< 0.057 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.051 U
Pyrene - Total	ug/l	0.18	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.057 U	0.013 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.2 J	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/1/2013	7/2/2013	7/3/2013	7/4/2013	7/5/2013	7/6/2013	7/7/2013	7/8/2013	7/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)070113	WS-003(SURFACE)070213	WS-003(SURFACE)070313	WS-003(SURFACE)070413	WS-003(SURFACE)070513	WS-003(SURFACE)070613	WS-003(SURFACE)070713	WS-003(SURFACE)070813	WS-003(SURFACE)070913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/10/2013	7/11/2013	7/12/2013	7/13/2013	7/14/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)071013	WS-003(SURFACE)071113	WS-003(SURFACE)071213	WS-003(SURFACE)071313	WS-003(SURFACE)071413	WS-003(SURFACE)071513	WS-003(SURFACE)071613	WS-003(SURFACE)071713	WS-003(SURFACE)071813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	74	78	74	80	78	90	89	92	81
Dissolved Oxygen	mg/l	3.82	2.71	3.66	3.21	3.73	3.58	2.58	6.51	9.08
pH	SU	5.97	5.58	6.33	6.4	6.75	6.84	6.62	6.82	9.07
Temperature	deg C	29.83	28.31	28.71	28.99	28.55	29.11	29.15	29.39	34.61
Turbidity	NTU	25.2	20.7	31.8	20	25.1	30.7	21.8	49.5	47
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	0.0091	< 0.0111 UB	0.0133	0.0066
Barium - Total	mg/L	0.0288	0.0452	0.0517	0.0404	0.0523	0.0424	0.0336	0.0674	0.0462
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.68	5.90	6.44 J	6.10 J	6.11 J	5.99	6.02	6.19	6.26
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0074 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.64	2.78	3.13 J	2.92 J	2.84 J	2.85	2.88	2.91	2.84 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0025 J	0.0021 J	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 UB	0.0016 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0028 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	25.0	26.2	29.0	27.2	26.9	26.7	26.9	27.4	27.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	0.024 J	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	0.020 J	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.014 J	< 0.052 U	0.012 J	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	0.052 J	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	0.018 J	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	0.029 J	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	0.021 J	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	0.093	0.39	0.16	0.28	< 0.053 U	< 0.15 UB	< 0.052 UB	0.56	< 0.051 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	0.092	0.019 J	< 0.060 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	0.038 J	0.013 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/10/2013	7/11/2013	7/12/2013	7/13/2013	7/14/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)071013	WS-003(SURFACE)071113	WS-003(SURFACE)071213	WS-003(SURFACE)071313	WS-003(SURFACE)071413	WS-003(SURFACE)071513	WS-003(SURFACE)071613	WS-003(SURFACE)071713	WS-003(SURFACE)071813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013	7/25/2013	7/26/2013	7/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)071913	WS-003(SURFACE)072013	WS-003(SURFACE)072113	WS-003(SURFACE)072213	WS-003(SURFACE)072313	WS-003(SURFACE)072413	WS-003(SURFACE)072513	WS-003(SURFACE)072613	WS-003(SURFACE)072713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	97	93	88	85	73	80	79	77	78
Dissolved Oxygen	mg/l	1.94	2.43	2.46	2.95	4.64	3.55	7.46	5.64	6.45
pH	SU	7.29	7.36	7.5	7.28	7.36	7.13	7.94	7.52	7.43
Temperature	deg C	30.11	29.77	29.82	29.42	29.35	27.61	29.01	27.24	28.04
Turbidity	NTU	39.8	27.9	23.8	22.7	21.4	16	21.9	64	22.5
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0072 J	0.0080 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0102 UB	< 0.0133 UB	0.0153	< 0.0171 UB	0.0184	0.0200	< 0.0124 UB	0.0153	< 0.0152 UB
Barium - Total	mg/L	0.0495	0.0575	0.0604	0.0530	0.0496	0.0521	0.0397	0.0631	0.0419
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.08	6.29 J	6.14 J	6.06	5.84	5.50 J	5.59	6.11	5.51
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.86	2.96 J	2.91 J	2.90 J	2.72	2.57 J	2.70	2.94	2.65
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00014 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	0.0016 J	0.0021 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0025 J	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	27.0	27.9	27.3	27.1	25.8	24.3	25.1	27.4	24.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	0.012 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	0.013 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	0.011 J	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.018 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	0.012 J	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	0.013 J	< 0.052 U	< 0.051 U	< 0.051 U	0.015 J	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	0.24	< 0.052 U	0.013 J	< 0.051 U	0.014 J	< 0.050 U	0.035 J	< 0.050 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013	7/25/2013	7/26/2013	7/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)071913	WS-003(SURFACE)072013	WS-003(SURFACE)072113	WS-003(SURFACE)072213	WS-003(SURFACE)072313	WS-003(SURFACE)072413	WS-003(SURFACE)072513	WS-003(SURFACE)072613	WS-003(SURFACE)072713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013	8/3/2013	8/4/2013	8/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)072813	WS-003(SURFACE)072913	WS-003(SURFACE)073013	WS-003(SURFACE)073113	WS-003(SURFACE)080113	WS-003(SURFACE)080213	WS-003(SURFACE)080313	WS-003(SURFACE)080413	WS-003(SURFACE)080513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	79	79	81	80	80	80	83	84	81
Dissolved Oxygen	mg/l	3.12	4.3	2.14	3.3	5.79	6.14	6.09	5.02	4.92
pH	SU	7.31	7.95	7.31	7.25	7.53	7.91	7.39	7.5	7.38
Temperature	deg C	27.23	28.12	27.71	27.6	28.79	29.45	30.11	29.75	29.38
Turbidity	NTU	17	19.6	32.5	21.6	18.9	18.5	19.3	23.8	22.6
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0080 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0159 UB	< 0.0121 UB	< 0.0156 UB	< 0.0158 UB	< 0.0118 UB	0.0114	< 0.0119 UB	0.0111	0.0125
Barium - Total	mg/L	0.0368	0.0444	0.0548	0.0482	0.0474	0.0285	0.0362	0.0393	0.0359
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.87 J	5.87	6.11	5.79	5.89	5.68	6.37	5.94	5.87
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0026 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.79 J	2.82	2.96 J	2.75	2.84	2.69	2.69	2.84	2.77
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	0.0078 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0019 J	< 0.0100 U	< 0.0100 U	0.0018 J	0.0025 J	0.0017 J	< 0.0100 U	< 0.0100 U	0.0030 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0027 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.2	26.2	27.4	25.8	26.4	25.3	27.0	26.5	26.1
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.050 U	0.16	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013	8/3/2013	8/4/2013	8/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)072813	WS-003(SURFACE)072913	WS-003(SURFACE)073013	WS-003(SURFACE)073113	WS-003(SURFACE)080113	WS-003(SURFACE)080213	WS-003(SURFACE)080313	WS-003(SURFACE)080413	WS-003(SURFACE)080513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013	8/12/2013	8/13/2013	8/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)080613	WS-003(SURFACE)080713	WS-003(SURFACE)080813	WS-003(SURFACE)080913	WS-003(SURFACE)081013	WS-003(SURFACE)081113	WS-003(SURFACE)081213	WS-003(SURFACE)081313	WS-003(SURFACE)081413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	81	80	86	87	86	84	88	84	81
Dissolved Oxygen	mg/l	5.86	4.06	5.43	5.64	4.43	6.68	1.82	4.49	6.38
pH	SU	7.61	7.64	7.64	7.57	7.42	7.64	7.25	7.4	7.1
Temperature	deg C	29.89	30.15	30.8	30.58	30.15	29.73	29.36	29.56	27.31
Turbidity	NTU	31.6	17.1	31.9	18.9	27	33.1	20.5	13.6	26.4
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0093 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0102	0.0117	< 0.0089 UB	0.0129	0.0144	0.0091	0.0129	0.0283	0.0158
Barium - Total	mg/L	0.0409	0.0427	0.0336	0.0412	0.0390	0.0397	0.0553	0.0365	0.0451
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.80	5.87	6.25	6.14	6.30	6.20	6.15	5.99	6.17
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0018 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.78	2.73	2.77	2.85	2.97	2.86	2.86	2.80	2.92
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000066 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0024 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	25.9	25.9	27.0	27.1	27.9	27.3	27.1	26.5	27.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	0.012 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	0.012 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	0.011 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.053 U	0.012 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013	8/12/2013	8/13/2013	8/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)080613	WS-003(SURFACE)080713	WS-003(SURFACE)080813	WS-003(SURFACE)080913	WS-003(SURFACE)081013	WS-003(SURFACE)081113	WS-003(SURFACE)081213	WS-003(SURFACE)081313	WS-003(SURFACE)081413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	11	< 5.0 U	< 5.0 U	5.3	< 5.8 UB
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013	8/21/2013	8/22/2013	8/23/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)081513	WS-003(SURFACE)081613	WS-003(SURFACE)081713	WS-003(SURFACE)081813	WS-003(SURFACE)081913	WS-003(SURFACE)082013	WS-003(SURFACE)082113	WS-003(SURFACE)082213	WS-003(SURFACE)082313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	80	80	77	77	80	86	83	84	82
Dissolved Oxygen	mg/l	8.42	5.31	5.71	5.36	4.91	5.95	7.61	5.22	4.71
pH	SU	7.74	7.59	7.31	7.4	7.59	8.92	8.99	8.59	8.55
Temperature	deg C	27.14	26.35	25.02	26.35	27.71	30.8	30.07	31.3	34.15
Turbidity	NTU	28.9	25.1	21.6	27.9	38.9	27.5	11.3	25.3	21.4
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0095 J	0.0105 J	< 0.0200 U	0.0074 J	0.0102 J
Barium - Dissolved	mg/l	0.0089	0.0157	0.0174	0.0134	< 0.0140 UB	0.0078	< 0.0050 UB	0.0062	0.0052
Barium - Total	mg/L	0.0432	0.0550	0.0414	0.0414	0.0678	0.0917	< 0.0453 UB	0.0265	0.0282
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.33	6.15	6.01	6.11	6.12	7.00	5.81	6.05	5.57
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0023 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0051 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.95	2.94	2.86	2.94	2.92	3.06	2.81	2.89	2.70
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	0.0021 J	0.0031 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0020 J	0.0048 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	27.9	27.5	26.8	27.4	27.3	30.1	26.1	27.0	25.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	0.015 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	0.024 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	0.018 J	< 0.051 U	< 0.052 U	0.027 J	0.015 J	< 0.051 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.016 J	< 0.051 U	< 0.052 U	0.021 J	0.012 J	< 0.051 U	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.024 J	< 0.051 U	< 0.052 U	0.038 J	0.029 J	< 0.051 U	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.025 J	< 0.051 U	< 0.052 U	0.031 J	0.013 J	< 0.051 U	< 0.055 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	0.022 J	< 0.051 U	0.011 J	0.041 J	0.014 J	< 0.051 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 UJ
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.015 J	< 0.051 U	< 0.052 U	0.022 J	0.012 J	< 0.051 U	< 0.055 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	0.012 J	< 0.051 U	< 0.051 U	< 0.055 UJ
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.022 J	< 0.051 U	0.011 J	0.044 J	0.020 J	< 0.051 U	< 0.055 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	1.5 J	< 5.0 U	1.6 J	3.1 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013	8/21/2013	8/22/2013	8/23/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)081513	WS-003(SURFACE)081613	WS-003(SURFACE)081713	WS-003(SURFACE)081813	WS-003(SURFACE)081913	WS-003(SURFACE)082013	WS-003(SURFACE)082113	WS-003(SURFACE)082213	WS-003(SURFACE)082313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)082413	WS-003(SURFACE)082513	WS-003(SURFACE)082613	WS-003(SURFACE)082713	WS-003(SURFACE)082813	WS-003(SURFACE)082913	WS-003(SURFACE)083013	WS-003(SURFACE)083113	WS-003(SURFACE)090113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	103	104	104	78	71	70	70	70	74
Dissolved Oxygen	mg/l	3.29	2.04	0.01	4.09	4.4	5.19	3.08	2.91	3.4
pH	SU	7.89	6.95	NA	7.11	7.23	8.32	8.7	8.55	8.65
Temperature	deg C	31.64	28.58	33.11	30.23	31.13	32.07	31.06	31.1	31.38
Turbidity	NTU	NA	NA	NA	19.1	15.2	10.4	10.2	9.9	9.9
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0072 J	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0104 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ
Barium - Dissolved	mg/l	< 0.0091 UB	0.0090	0.0027 J	0.0177	0.0136	0.0109	0.0158	0.0102	0.0337
Barium - Total	mg/L	0.0280	0.0340	0.0317	0.0601	0.0394	0.0412	0.0760	0.0345	0.115
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ
Calcium - Total	mg/l	7.83	6.41	6.29	6.26	6.61	6.33	6.73	7.54	6.95
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.83	2.99	2.88	2.92	3.03	2.91	3.10	2.92	3.17
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	31.2	28.3	27.6	27.6	29.0	27.8	29.6	30.8	30.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	0.016 J	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	0.027 J	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	0.014 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 UJ	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 UB	< 0.051 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	0.012 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)082413	WS-003(SURFACE)082513	WS-003(SURFACE)082613	WS-003(SURFACE)082713	WS-003(SURFACE)082813	WS-003(SURFACE)082913	WS-003(SURFACE)083013	WS-003(SURFACE)083113	WS-003(SURFACE)090113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.2 J	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	0.5	< 0.5 UB	< 0.5 U	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.5	0.1 J	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013	9/8/2013	9/9/2013	9/10/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)090213	WS-003(SURFACE)090313	WS-003(SURFACE)090413	WS-003(SURFACE)090513	WS-003(SURFACE)090613	WS-003(SURFACE)090713	WS-003(SURFACE)090813	WS-003(SURFACE)090913	WS-003(SURFACE)091013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	71	72	68	73	73	74	77	78	75
Dissolved Oxygen	mg/l	4.12	6.37	6.19	7.57	5.88	6.46	4	2.45	3.01
pH	SU	8.06	8.89	8.85	9.41	9.56	9.02	8.3	8.38	8.16
Temperature	deg C	31.02	31.05	31.1	32.4	32.31	31.41	30.42	30.49	29.84
Turbidity	NTU	10.6	16.1	15.5	19.5	10	14.3	5.9	7.5	8.1
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0073 J	< 0.0200 U	0.0070 J	< 0.0200 U
Arsenic - Total	mg/L	0.0092 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0076 J	< 0.0200 UB	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0193	0.0086	0.0072	0.0066	0.0117	0.0160	0.0246	0.0266	0.0225
Barium - Total	mg/L	0.0571	0.0457	0.0485	0.0575	0.0421	0.0476	0.0725	0.0749	0.0737
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.82	6.96	7.14	7.27	6.79	7.32	7.28	7.35	7.18
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.12	3.20	3.28	3.24	3.12	3.21	3.32	3.39	3.27
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	29.9	30.6	31.4	31.5	29.8	31.5	31.8	32.3	31.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.056 U	< 0.052 U	0.019 J	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.056 U	< 0.052 U	0.017 J	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.056 U	< 0.052 U	0.029 J	0.012 J	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.056 U	< 0.052 U	0.029 J	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.056 U	< 0.052 U	0.022 J	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.056 U	0.011 J	0.012 J	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.056 U	< 0.052 U	0.013 J	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.056 U	< 0.052 U	0.024 J	< 0.053 U	< 0.055 U	< 0.059 U	< 0.055 U	< 0.053 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.4 J	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	2.0 J	3.3 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013	9/8/2013	9/9/2013	9/10/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)090213	WS-003(SURFACE)090313	WS-003(SURFACE)090413	WS-003(SURFACE)090513	WS-003(SURFACE)090613	WS-003(SURFACE)090713	WS-003(SURFACE)090813	WS-003(SURFACE)090913	WS-003(SURFACE)091013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.4 UB	3.6 J	< 5.0 U	< 5.0 U	3.9 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 UB	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013	9/17/2013	9/18/2013	9/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)091113	WS-003(SURFACE)091213	WS-003(SURFACE)091313	WS-003(SURFACE)091413	WS-003(SURFACE)091513	WS-003(SURFACE)091613	WS-003(SURFACE)091713	WS-003(SURFACE)091813	WS-003(SURFACE)091913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	68	74	75	75	75	74	74	74	76
Dissolved Oxygen	mg/l	5.32	4.7	4.92	4.98	5.09	6.25	5.77	4.89	1.94
pH	SU	8.8	8.41	7.96	8.09	8.22	8.87	8.89	8.84	8.45
Temperature	deg C	32.63	31.88	29.08	27.54	27.81	27.66	27.9	27.87	27.1
Turbidity	NTU	6.1	8.8	12.2	7.6	8.1	18.6	18.3	19.3	12.5
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0073 J	< 0.0200 U	0.0071 J	0.0081 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0106 UB	< 0.0082 UB	0.0198	0.0256	0.0238	0.0198	0.0202	0.0140	0.0237
Barium - Total	mg/L	0.0396	0.0276	0.0448	0.0566	0.0520	0.123	0.0535	0.0402	0.0716
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.47	7.50	7.46	7.44	7.10	7.73	7.29	6.78	7.39
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.19	3.30	3.38	3.31	3.33	3.44	3.40	3.12	3.39
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	31.8	32.3	32.6	32.2	31.4	33.5	32.2	29.8	32.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.013 J	< 0.052 U	< 0.054 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 UB	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.2 J	3.6 J	< 5.0 UB	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013	9/17/2013	9/18/2013	9/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)091113	WS-003(SURFACE)091213	WS-003(SURFACE)091313	WS-003(SURFACE)091413	WS-003(SURFACE)091513	WS-003(SURFACE)091613	WS-003(SURFACE)091713	WS-003(SURFACE)091813	WS-003(SURFACE)091913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013	9/26/2013	9/27/2013	9/28/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)092013	WS-003(SURFACE)092113	WS-003(SURFACE)092213	WS-003(SURFACE)092313	WS-003(SURFACE)092413	WS-003(SURFACE)092513	WS-003(SURFACE)092613	WS-003(SURFACE)092713	WS-003(SURFACE)092813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	74	74	75	72	73	73	74	74	71
Dissolved Oxygen	mg/l	5.57	4.87	3.01	3.82	3.75	5.14	7.01	6.42	2.51
pH	SU	8.78	8	8.01	8.66	8.7	8.89	9.72	8.79	8.41
Temperature	deg C	27.62	24.87	23.51	25.21	25.18	24.95	27.75	26.99	25.68
Turbidity	NTU	17.4	15.4	14.2	8.9	9.6	15.4	14.9	19	11.5
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0074 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0226 UB	0.0230	0.0264	0.0249	0.0150	0.0132	0.0093	0.0116	0.0290
Barium - Total	mg/L	0.0595	0.0649	0.0576	0.0496	0.0411	0.0476	0.0525	0.0650	0.0701
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.20	7.32	7.18	7.03	6.66	7.49	6.94	6.93	7.14
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.27	3.35	3.36	3.31	3.13	3.35	3.26	3.30	3.37
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	0.0022 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	31.4	32.1	31.8	31.2	29.5	32.5	30.7	30.9	31.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.028 J
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.026 J
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.071
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	0.028 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013	9/26/2013	9/27/2013	9/28/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)092013	WS-003(SURFACE)092113	WS-003(SURFACE)092213	WS-003(SURFACE)092313	WS-003(SURFACE)092413	WS-003(SURFACE)092513	WS-003(SURFACE)092613	WS-003(SURFACE)092713	WS-003(SURFACE)092813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.4 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013	10/5/2013	10/6/2013	10/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)092913	WS-003(SURFACE)093013	WS-003(SURFACE)100113	WS-003(SURFACE)100213	WS-003(SURFACE)100313	WS-003(SURFACE)100413	WS-003(SURFACE)100513	WS-003(SURFACE)100613	WS-003(SURFACE)100713
Validation Level		Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	73	73	74	73	75	75	75	NA	NA
Dissolved Oxygen	mg/l	2.67	3.01	2.63	3.21	2.17	2.44	2.35	NA	NA
pH	SU	7.78	8.32	7.58	7.62	8.14	8.38	8.28	NA	NA
Temperature	deg C	25.46	25.7	24.95	25.01	25.39	25.99	25.67	NA	NA
Turbidity	NTU	29.7	11	11.9	13.7	12.3	13.8	13.1	NA	NA
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0073 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0220	< 0.0202 UB	0.0219	0.0230	0.0219	0.0207	0.0202	0.0225	0.0270
Barium - Total	mg/L	0.0718	0.0691	0.0464	0.0533	0.0585	0.0501	0.0468	0.0511	0.0436
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.65	6.91	6.72	6.71	6.75	6.71	6.10	6.39	6.14
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.19	3.26	3.15	3.20	3.18	3.20	2.88	3.08	2.93
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0022 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	29.7	30.7	29.7	29.9	29.9	30.0	27.1	28.6	27.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	0.012 J	< 0.051 UB	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	0.017 J	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.023 J	< 0.051 UB	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	0.017 J	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	0.013 J	< 0.051 UB	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	0.017 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	0.059	< 0.062 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	0.20	< 0.051 UB	0.012 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.062 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.4 J	< 5.0 U	3.0 J	1.7 J	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013	10/5/2013	10/6/2013	10/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)092913	WS-003(SURFACE)093013	WS-003(SURFACE)100113	WS-003(SURFACE)100213	WS-003(SURFACE)100313	WS-003(SURFACE)100413	WS-003(SURFACE)100513	WS-003(SURFACE)100613	WS-003(SURFACE)100713
Validation Level		Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)100813	WS-003(SURFACE)100913	WS-003(SURFACE)101013	WS-003(SURFACE)101113	WS-003(SURFACE)101213	WS-003(SURFACE)101313	WS-003(SURFACE)101413	WS-003(SURFACE)101513	WS-003(SURFACE)101613
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	NA	78	85	83	82	82	82	80	79
Dissolved Oxygen	mg/l	NA	5.71	5.52	5.19	4.1	5.96	4.52	4.11	5.06
pH	SU	NA	7.93	6.2	7.93	7.3	7.19	7.76	7.51	7.31
Temperature	deg C	NA	22.84	19.14	21.77	22.69	22.29	21.3	21.61	19.45
Turbidity	NTU	NA	22.5	21.8	18	18	43.2	16.1	16	25.4
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0069 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0177	0.0155	0.0200	0.0209	0.0212	0.0190	0.0264	0.0258	0.0203
Barium - Total	mg/L	0.0532	0.0352	0.0356	0.0432	0.0434	0.0627	0.0467	0.0432	0.0445
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.38	5.95	5.94	5.83	5.71	6.05	5.45	5.82	5.30
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.12	2.92	2.89	2.85	2.79	2.92	2.72	2.87	2.66
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0022 J	0.0019 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	28.8	26.9	26.7	26.3	25.7	27.1	24.8	26.3	24.2
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.037 J	< 0.050 U	< 0.051 UB	< 0.062 UB	< 0.053 UB	< 0.050 U	< 0.079 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.049 U	< 0.050 U	< 0.053 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	2.6 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)100813	WS-003(SURFACE)100913	WS-003(SURFACE)101013	WS-003(SURFACE)101113	WS-003(SURFACE)101213	WS-003(SURFACE)101313	WS-003(SURFACE)101413	WS-003(SURFACE)101513	WS-003(SURFACE)101613
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)101713	WS-003(SURFACE)101813	WS-003(SURFACE)101913	WS-003(SURFACE)102013	WS-003(SURFACE)102113	WS-003(SURFACE)102213	WS-003(SURFACE)102313	WS-003(SURFACE)102413	WS-003(SURFACE)102513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	80	80	77	78	78	79	77	76	77
Dissolved Oxygen	mg/l	5.36	4.09	5.52	5.18	4.4	6.01	5.67	5.11	6.24
pH	SU	8.29	7.41	7.37	7.08	7.3	6.01	5.79	6.73	6.95
Temperature	deg C	19.37	17.57	19.54	15.29	15.8	15.31	15.8	15.89	13.78
Turbidity	NTU	25.7	25.9	27.3	29.7	22.3	22.9	48	33.1	33.8
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0089 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0196	0.0193	0.0198	0.0192	0.0179	0.0203	0.0182	0.0205	0.0176
Barium - Total	mg/L	0.0356	0.0369	0.0374	0.0317	0.0387	0.0334	0.0398	0.0389	0.0299
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.37	5.20	4.97	5.11	4.84	4.88	5.02	4.64	4.51
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0053 J	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.66	2.62	2.48	2.57	2.45	2.49	2.54	2.34	2.30
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	24.4	23.7	22.6	23.3	22.2	22.4	23.0	21.2	20.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	0.041 J	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	2.2 J	< 5.0 U	< 5.0 U	< 5.0 UB	2.4 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-003
Sample Date		10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-003(SURFACE)101713	WS-003(SURFACE)101813	WS-003(SURFACE)101913	WS-003(SURFACE)102013	WS-003(SURFACE)102113	WS-003(SURFACE)102213	WS-003(SURFACE)102313	WS-003(SURFACE)102413	WS-003(SURFACE)102513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0.5-1 ft
Sample ID		WS-003(SURFACE)102613	WS-003(SURFACE)102713	WS-003(SURFACE)102813	WS-003(SURFACE)102913	WS-003(SURFACE)103013	WS-003(SURFACE)103113	RRS330SW4	RRS331SW4	RRS41SW4	RRS42SW4	RRS43SW4	RRS44SW4	RRS44SW4B
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**													
FIELD														
Conductivity	uS/cm	79	76	77	68	75	77	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	5.18	4.25	3.28	3.51	4.87	5.43	NA	NA	NA	NA	NA	NA	NA
pH	SU	6.74	6.93	6.82	6.93	6.65	7.45	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	13.36	14.15	15.12	15.01	16.81	17.75	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	25.6	23.1	19	42.7	85.6	34.7	NA	NA	NA	NA	NA	NA	NA
Metals														
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	< 0.0100 U	< 0.0100 U
Barium - Dissolved	mg/l	0.0172	0.0199	0.0197	0.0212	0.0184	0.0182	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0278	0.0373	0.0287	0.0303	0.0289	0.0321	0.0249	0.0284	0.0415	NA	NA	0.0272	0.0338
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.76	4.62	4.72	4.65	4.33	4.34	NA	NA	NA	NA	NA	NA	NA
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0053	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U
Magnesium - Total	mg/l	2.39	2.35	2.39	2.37	2.21	2.24	NA	NA	NA	NA	NA	NA	NA
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	< 0.0150 U	< 0.0150 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0070 U	< 0.0070 U	< 0.0070 U	NA	NA	< 0.0070 U	< 0.0070 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	< 0.0100 U	< 0.0100 U
Other														
Hardness (as CaCO3)	mg/l	21.8	21.2	21.6	21.4	19.9	20.0	NA	NA	NA	NA	NA	NA	NA
PAHs-SIM														
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	0.036 J	< 0.051 U	< 0.051 U	< 0.053 U	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene - Total	ug/l	< 0.052 U	0.016 J	0.072	< 0.051 U	< 0.051 U	< 0.053 U	NA	NA	NA	NA	NA	NA	NA
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 UB	0.13	< 0.051 U	< 0.051 U	< 0.053 U	< 0.50 U	< 0.54 U	< 0.50 U	0.93	< 0.54 U	< 0.55 U	< 0.50 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.50 U	< 0.54 U	< 0.50 U	< 0.55 U	< 0.54 U	< 0.55 U	< 0.50 U
Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.10 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.10 U
TPH														
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	< 200 U	< 200 U	610	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA
VOCs														
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	0.2 J	1.0	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	1.2	4	5.9	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-003	WS-003	WS-003	WS-003	WS-003	WS-003	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0.5-1 ft
Sample ID		WS-003(SURFACE)102613	WS-003(SURFACE)102713	WS-003(SURFACE)102813	WS-003(SURFACE)102913	WS-003(SURFACE)103013	WS-003(SURFACE)103113	RRS330SW4	RRS331SW4	RRS41SW4	RRS42SW4	RRS43SW4	RRS44SW4	RRS44SW4B
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**													
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	1.6	4.2	2.9 J	2.2	2
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	18.5	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	< 0.5 U	0.1 J	0.5 J	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	79.2	102	8.6 J	2.4	3.4
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/l	< 0.5 U	0.2 J	1.1	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	6	3	< 1.0 U	< 1.0 U	< 1.0 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	1.1	< 1.0 U	< 1.0 U	< 1.0 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/l	< 0.5 U	0.6	< 3.3 UB	0.1 J	< 0.5 U	< 0.5 U	1.1	2.1	76.5	77.7	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylene (Total)	ug/l	< 0.5 U	0.8	6.8	0.1 J	< 0.5 U	< 0.5 U	< 3.0 U	< 3.0 U	33.5	59.2	13.5 J	7.6	7.6

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/5/2013	4/5/2013	4/6/2013	4/6/2013	4/7/2013	4/7/2013	4/8/2013	4/8/2013	4/9/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004-04052013(SURFACE)	WS-004-04052013(0.5-1.0)	WS-004-04062013(SURFACE)	WS-004-04062013(0.5-1.0)	WS-004-04072013(SURFACE)	WS-004-04072013(0.5-1.0)	WS-004(SURFACE)040813	WS-004(0.5-1.0)040813	WS-004(SURFACE)040913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	71	71	46	46	43	43	44	44	46
Dissolved Oxygen	mg/l	7.32	7.32	5.75	5.75	4.18	4.18	3.3	3.3	4.67
pH	SU	6	6	7.04	7.04	6.54	6.54	6.68	6.68	6.92
Temperature	deg C	9.5	9.5	17.51	17.51	18.17	18.17	19.06	19.06	22.5
Turbidity	NTU	39	39	13	13	8.8	8.8	10.9	10.9	6.2
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0289	0.0300	0.0258	0.0282	0.0413	0.0502	0.0215	0.0234	0.0242
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.41	3.57	3.24	3.25	3.97	4.23	3.30	3.42	3.59
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0036 J	0.0035 J	0.0021 J	0.0016 J	0.0027 J	0.0054 J	0.0015 J	< 0.0150 U	0.0016 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0061 J	0.0118 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.57	1.71	1.46	1.43	1.72	1.90	1.49	1.56	1.63
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0017 J	0.0025 J	0.0030 J	0.0026 J	0.0031 J	0.0041 J	0.0016 J	0.0024 J	0.0015 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0046 J	0.0036 J	0.0022 J	0.0025 J	0.0035 J	0.0070	0.0023 J	0.0023 J	0.0023 J
Other										
Hardness (as CaCO3)	mg/l	15.0	16.0	14.1	14.0	17.0	18.4	14.4	15.0	15.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	0.39	0.36	0.12	0.090	0.086	0.083	0.013 J	0.017 J	< 0.051 U
2-Methylnaphthalene - Total	ug/l	0.27	0.23	0.084	0.055	0.049 J	0.049 J	< 0.050 U	0.011 J	< 0.051 U
Acenaphthene - Total	ug/l	0.023 J	0.024 J	0.014 J	0.014 J	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	0.014 J	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	0.012 J	< 0.053 U	< 0.051 U	< 0.052 U	0.023 J	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	0.020 J	< 0.050 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	0.011 J	< 0.053 U	< 0.051 U	0.013 J	0.020 J	< 0.050 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	0.057	0.057	0.040 J	0.040 J	0.028 J	0.028 J	0.014 J	0.014 J	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	0.14	0.13	0.039 J	0.033 J	0.049 J	0.052	< 0.050 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	0.042 J	0.038 J	0.039 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	0.011 J	< 0.053 U	< 0.051 U	0.014 J	0.018 J	< 0.050 U	< 0.052 U	0.014 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/5/2013	4/5/2013	4/6/2013	4/6/2013	4/7/2013	4/7/2013	4/8/2013	4/8/2013	4/9/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004-04052013(SURFACE)	WS-004-04052013(0.5-1.0)	WS-004-04062013(SURFACE)	WS-004-04062013(0.5-1.0)	WS-004-04072013(SURFACE)	WS-004-04072013(0.5-1.0)	WS-004(SURFACE)040813	WS-004(0.5-1.0)040813	WS-004(SURFACE)040913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	1.6	1.8	0.8	1.0	0.6	0.6	0.3 J	0.2 J	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.0 J	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	1.3	1.2	0.4 J	0.5 J	0.2 J	0.2 J	0.1 J	0.1 J	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	6.5	6.6	2.8	3.5	1.8	2.1	0.7	0.7	0.2 J

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/9/2013	4/10/2013	4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)040913	WS-004(SURFACE)041013	WS-004(0.5-1.0)041013	WS-004(SURFACE)041113	WS-004(0.5-1.0)041113	WS-004(SURFACE)041213	WS-004(0.5-1.0)041213	WS-004(SURFACE)041313	WS-004(0.5-1.0)041313	WS-004(SURFACE)041413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	46	48	48	48	48	43	43	43	43	45
Dissolved Oxygen	mg/l	4.67	4.55	4.55	1.85	1.85	0.7	0.7	0.96	0.96	0.97
pH	SU	6.92	6.98	6.98	6.47	6.47	6.35	6.35	6.42	6.42	6.54
Temperature	deg C	22.5	23.39	23.39	16.44	16.44	18.13	18.13	16.76	16.76	17.65
Turbidity	NTU	6.2	4.5	4.5	123	123	268	268	155	155	113
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0237	0.0178	0.0218	0.0805	0.0801	0.106	0.117	0.0997	0.104	0.0757
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.52	3.16	3.56	4.50	4.72	4.14	4.45	3.96	4.39	3.74
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0019 J	< 0.0150 U	0.0012 J	0.0084 J	0.0091 J	0.0105 J	0.0112 J	0.0131 J	0.0128 J	0.0068 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0086 J	0.0085 J	0.0114 J	0.0144 J	0.0116 J	0.0115 J	0.0076 J
Magnesium - Total	mg/l	1.61	1.49	1.67	2.60 J	2.71 J	2.42	2.59	2.59	2.66	2.03 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0024 J	< 0.0100 UB	< 0.0100 UB	0.0068 J	0.0075 J	0.010 J	0.0104	0.0099 J	0.0105	0.0069 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0020 J	0.0020 J	0.0032 J	0.0137	0.0136	0.0173	0.0187	0.0184	0.0189	0.0107
Other											
Hardness (as CaCO3)	mg/l	15.4	14.0	15.7	21.9	23.0	20.3	21.8	20.6	21.9	17.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	0.017 J	0.035 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	0.017 J	0.038 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	0.013 J	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	0.011 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	0.028 J	< 0.054 U	0.014 J	< 0.053 UJ	0.014 J	0.019 J	< 0.051 U	0.012 J	0.013 J	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	0.019 J	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	0.015 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	0.022 J	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Chrysene - Total	ug/l	0.027 J	< 0.054 U	0.025 J	< 0.053 UJ	0.021 J	< 0.051 U	0.013 J	< 0.050 U	< 0.052 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	0.021 J	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Fluoranthene - Total	ug/l	0.020 J	< 0.054 U	< 0.054 U	< 0.053 UJ	0.016 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	< 0.053 UJ	0.015 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.023 J	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	0.017 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	0.034 J	0.065	0.043 J	0.048 J	0.041 J	0.044 J	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.054 U	< 0.054 U	< 0.053 UJ	< 0.058 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U
Pyrene - Total	ug/l	0.020 J	< 0.054 U	0.013 J	< 0.053 UJ	0.019 J	0.017 J	0.015 J	0.015 J	0.019 J	0.011 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	2.1	2.6	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/9/2013	4/10/2013	4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)040913	WS-004(SURFACE)041013	WS-004(0.5-1.0)041013	WS-004(SURFACE)041113	WS-004(0.5-1.0)041113	WS-004(SURFACE)041213	WS-004(0.5-1.0)041213	WS-004(SURFACE)041313	WS-004(0.5-1.0)041313	WS-004(SURFACE)041413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.9	1.0	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.4 J	0.5	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	2.3	2.8	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	4.1	5.1	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.2 J	< 0.5 U	< 0.5 U	17	20	0.3 J	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/14/2013	4/15/2013	4/15/2013	4/16/2013	4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.4)041413	WS-004(SURFACE)041513	WS-004(0.5-1.0)041513	WS-004(SURFACE)041613	WS-004(0.5-1.0)041613	WS-004(SURFACE)041713	WS-004(0.5-1.0)041713	WS-004(SURFACE)041813	WS-004(0.5-1.0)041813	WS-004(SURFACE)041913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	45	64	64	66	66	51	51	50	50	61
Dissolved Oxygen	mg/l	0.97	6.65	6.65	1.41	1.41	2.53	2.53	0.96	0.96	0
pH	SU	6.54	6.2	6.2	5.67	5.67	6.39	6.39	6.38	6.38	5.82
Temperature	deg C	17.65	17.49	17.49	20.47	20.47	25.78	25.78	22.13	22.13	18.16
Turbidity	NTU	113	30.2	30.2	309.7	309.7	182	182	269	269	752
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0089 J	0.0150 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0833	0.0935	0.0858	0.0904	0.111	0.101	0.101	0.0457	0.180	0.294
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00052 J
Calcium - Total	mg/l	4.10	4.03	4.23	4.19	4.95	4.68	4.55	3.46	7.27	7.17
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0080 J	0.0135 J	0.0097 J	0.010 J	0.0110 J	0.0118 J	0.0121 J	0.0043 J	0.0243	0.0325
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0081 J	0.0061 J	0.0057 J	0.0099 J	0.0191	0.0107 J	0.0085 J	< 0.0150 U	0.0192	0.0369
Magnesium - Total	mg/l	2.25 J	2.56	2.25	2.49	2.54	2.69	2.79	1.88	4.18	5.16
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0088 J	0.0086 J	0.0070 J	0.0098 J	0.0112	0.0098 J	0.0102	0.0027 J	0.0178	0.0293
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0122	0.0176	0.0126	0.0152	0.0166	0.0165	0.0177	0.0063	0.0356	0.0461
Other											
Hardness (as CaCO3)	mg/l	19.5	20.6	19.8	20.7	22.8	22.8	22.9	16.4	35.4	39.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	0.017 J
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	0.011 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	0.011 J	< 0.051 U	< 0.053 U	< 0.051 U	0.015 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	0.012 J	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	0.015 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	0.015 J
Fluorene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 UJ	0.072	< 0.050 UJ	0.22 J	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	0.048 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.060 U	< 0.050 UJ	< 0.051 UJ	0.011 J	< 0.051 U	< 0.053 U	0.013 J	0.021 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.8
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/14/2013	4/15/2013	4/15/2013	4/16/2013	4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.4)041413	WS-004(SURFACE)041513	WS-004(0.5-1.0)041513	WS-004(SURFACE)041613	WS-004(0.5-1.0)041613	WS-004(SURFACE)041713	WS-004(0.5-1.0)041713	WS-004(SURFACE)041813	WS-004(0.5-1.0)041813	WS-004(SURFACE)041913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.8
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.3 J	< 5.0 U	3.8 J	4.4 J	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.8	1.8
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	3.4

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/19/2013	4/20/2013	4/20/2013	4/21/2013	4/21/2013	4/22/2013	4/22/2013	4/23/2013	4/23/2013	4/24/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)041913	WS-004(SURFACE)042013	WS-004(0.5-1.0)042013	WS-004(SURFACE)042113	WS-004(0.5-1.0)042113	WS-004(SURFACE)042213	WS-004(0.5-1.0)042213	WS-004(SURFACE)042313	WS-004(0.5-1.0)042313	WS-004(SURFACE)042413
Validation Level		Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	61	55	55	51	51	179	179	172	172	278
Dissolved Oxygen	mg/l	0	0	0	0	0	1.94	1.94	3.85	3.85	0
pH	SU	5.82	5.91	5.91	6.44	6.44	5.47	5.47	6.02	6.02	5.73
Temperature	deg C	18.16	17.57	17.57	17.77	17.77	25.85	25.85	21.16	21.16	17.73
Turbidity	NTU	752	604	604	599	599	730	730	406	406	677
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0147 J	< 0.0200 UB	< 0.0200 UB	0.0149 J	0.0157 J	0.0139 J	0.0136 J	0.0074 J	< 0.0200 U	0.0076 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.293	0.282 J	0.322 J	0.243	0.266	0.228	0.187	0.188	0.183	0.214
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.50	6.91 J	8.16 J	6.75	6.63	6.71	6.11	6.08 J	5.96 J	6.92
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0343	0.0332	0.0373	0.0279	0.0297	0.0279	0.0192	0.0205	0.0191	0.0157
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0382	0.0317	0.0399	0.0295	0.0376	0.0293	0.0165	0.0200	0.0196	0.0204
Magnesium - Total	mg/l	5.56	5.19	5.68	4.77	5.05	4.43	3.83	4.11	3.96	3.76
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	0.00011 J	0.00013 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0307	0.0271	0.0305	0.0264	0.0283	0.0206	0.0145	0.0187	0.0183	0.0159
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0463	0.0523	0.0586	0.0439	0.0468	0.0415	0.0308	0.0338	0.0312	0.0282
Other											
Hardness (as CaCO3)	mg/l	41.6	38.6	43.8	36.5	37.4	35.0	31.0	32.1	31.2	32.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.012 J	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.013 J	< 0.053 UJ	< 0.052 UJ
2-Methylnaphthalene - Total	ug/l	0.017 J	< 0.051 U	0.011 J	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.015 J	< 0.053 UJ	< 0.052 UJ
Acenaphthene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.011 J	< 0.053 UJ	< 0.052 UJ
Acenaphthylene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Anthracene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.014 J	< 0.053 UJ	< 0.052 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.017 J	< 0.053 UJ	< 0.052 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Chrysene - Total	ug/l	0.012 J	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.025 J	< 0.053 UJ	0.012 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Fluoranthene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.013 J	< 0.053 UJ	< 0.052 UJ
Fluorene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.014 J	< 0.053 UJ	< 0.052 UJ
Naphthalene - Total	ug/l	0.049 J	< 0.051 U	0.081 J	0.037 J	0.040 J	< 0.051 UJ	< 0.051 UJ	0.039 J	< 0.053 UJ	< 0.052 UJ
Phenanthrene - Total	ug/l	< 0.055 UJ	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 U	< 0.053 UJ	< 0.052 UJ
Pyrene - Total	ug/l	0.015 J	0.015 J	0.017 J	0.012 J	0.012 J	0.013 J	0.013 J	0.025 J	0.014 J	0.017 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 U	2.6 J	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.8	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/19/2013	4/20/2013	4/20/2013	4/21/2013	4/21/2013	4/22/2013	4/22/2013	4/23/2013	4/23/2013	4/24/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)041913	WS-004(SURFACE)042013	WS-004(0.5-1.0)042013	WS-004(SURFACE)042113	WS-004(0.5-1.0)042113	WS-004(SURFACE)042213	WS-004(0.5-1.0)042213	WS-004(SURFACE)042313	WS-004(0.5-1.0)042313	WS-004(SURFACE)042413
Validation Level		Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.9	0.5 J	0.5 J	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	0.5 J
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.5 J	3.0 J	< 5.0 U	< 5.0 U	< 10 U	3.2 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1.8	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	0.5 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	3.4	0.8	1.1	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	1.8

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/24/2013	4/25/2013	4/25/2013	4/26/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013	4/28/2013	4/29/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)042413	WS-004(SURFACE)042513	WS-004(0.5-1.0)042513	WS-004(SURFACE)042613	WS-004(0.5-1.0)042613	WS-004(SURFACE)042713	WS-004(0.5-1.0)042713	WS-004(SURFACE)042813	WS-004(0.5-1.0)042813	WS-004(SURFACE)042913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	278	228	228	187	187	266	266	262	262	252
Dissolved Oxygen	mg/l	0	0	0	0	0	0	0	0	0	0
pH	SU	5.73	7.26	7.26	6.06	6.06	6.17	6.17	6.34	6.34	5.72
Temperature	deg C	17.73	17.8	17.8	18.04	18.04	17.3	17.3	16.79	16.79	17.56
Turbidity	NTU	677	643	643	711	711	564	564	572	572	549
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0101 J	0.0120 J	0.0120 J	0.0159 J	0.0158 J	0.0112 J	0.0107 J	NA	NA	0.0091 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.288	0.296	0.283	0.248	0.230	0.258	0.261	NA	NA	0.218
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00039 J	0.00066 J	0.00069 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00045 J	NA	NA	< 0.0050 U
Calcium - Total	mg/l	7.33	6.90	6.89	6.52	6.04	7.46	7.13	NA	NA	7.25
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0314	0.0337	0.0332	0.0342	0.0314	0.0263	0.0263	NA	NA	0.0263
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0298	0.0392	0.0392	0.0274	0.0255	0.0312	0.0312	NA	NA	0.0490
Magnesium - Total	mg/l	5.12	5.59	5.61	5.25	4.85	5.07	5.10	NA	NA	5.00
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000088 J	0.000092 J	0.000099 J	0.000092 J	NA	NA	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0268	0.0313	0.0311	0.0295	0.0269	0.0252	0.0255	NA	NA	0.0219
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0507	0.0518	0.0508	0.0499	0.0453	0.0418	0.0420	NA	NA	0.0385
Other											
Hardness (as CaCO3)	mg/l	39.4	40.2	40.3	37.9	35.0	39.5	38.8	NA	NA	38.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.011 J	< 0.052 UJ	0.14 J	< 0.052 UJ	< 0.053 UJ	0.011 J	0.033 J	NA	NA	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	0.011 J	< 0.052 UJ	0.15 J	< 0.052 UJ	< 0.053 UJ	0.011 J	0.033 J	NA	NA	< 0.051 UJ
Acenaphthene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.020 J	NA	NA	< 0.051 UJ
Acenaphthylene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.017 J	NA	NA	< 0.051 UJ
Anthracene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.019 J	NA	NA	< 0.051 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.027 J	NA	NA	< 0.051 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.031 J	NA	NA	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.035 J	NA	NA	< 0.051 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.040 J	NA	NA	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.030 J	NA	NA	< 0.051 UJ
Chrysene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.031 J	NA	NA	< 0.051 UJ
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.036 J	NA	NA	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.030 J	NA	NA	< 0.051 UJ
Fluorene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	0.024 J	< 0.052 UJ	< 0.053 UJ	0.015 J	0.032 J	NA	NA	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	0.038 J	NA	NA	< 0.051 UJ
Naphthalene - Total	ug/l	0.034 J	< 0.052 UJ	0.11 J	0.055 J	0.053 J	< 0.051 U	0.045 J	NA	NA	< 0.051 UJ
Phenanthrene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	< 0.051 U	< 0.051 U	NA	NA	< 0.051 UJ
Pyrene - Total	ug/l	0.013 J	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 UJ	0.013 J	0.033 J	NA	NA	< 0.051 UJ
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 UJ
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.6	0.2 J	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/24/2013	4/25/2013	4/25/2013	4/26/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013	4/28/2013	4/29/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)042413	WS-004(SURFACE)042513	WS-004(0.5-1.0)042513	WS-004(SURFACE)042613	WS-004(0.5-1.0)042613	WS-004(SURFACE)042713	WS-004(0.5-1.0)042713	WS-004(SURFACE)042813	WS-004(0.5-1.0)042813	WS-004(SURFACE)042913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.7	0.8	0.6	< 0.5 U	< 0.5 U	0.1 J	0.1 J	0.2 J	0.2 J	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.3 J
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	6.8	7.7	5.2	5.3	4.6 J	4.2 J	6.9	6.3	8.1
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.3 J	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	0.2 J	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	0.1 J	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	2.9	0.4 J	2.3	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	1.2	1.8	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	2.9	0.9	1.8	< 0.5 U	< 0.5 U	0.4 J	0.4 J	0.6	0.9	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/3/2013	5/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)042913	WS-004(SURFACE)043013	WS-004(0.5-1.0)043013	WS-004(SURFACE)050113	WS-004(0.5-1.0)050113	WS-004(SURFACE)050213	WS-004(0.5-1.0)050213	WS-004(SURFACE)050313	WS-004(0.5-1.0)050313	WS-004(SURFACE)050413
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	252	77	77	66	66	83	83	115	115	78
Dissolved Oxygen	mg/l	0	0	0	1.68	1.68	2.21	2.21	0.97	0.97	0.92
pH	SU	5.72	6.97	6.97	7.48	7.48	7.29	7.29	7.17	7.17	6.9
Temperature	deg C	17.56	20.36	20.36	21.3	21.3	22.07	22.07	16.35	16.35	15.51
Turbidity	NTU	549	527	527	506	506	466	466	800	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0089 J	0.0087 J	< 0.0200 U	0.0107 J	0.0106 J	0.0083 J	0.0111 J	0.0199 J	0.0206	0.0085 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.219	0.205	0.215	0.209	0.243	0.250	0.253	0.299	0.299	0.330
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	0.00042 J	0.00037 J	< 0.0050 U	0.00040 J	< 0.0050 U	0.00058 J	< 0.0050 U	< 0.0050 U	0.00048 J
Calcium - Total	mg/l	7.35	7.44	7.47	7.56	7.95	7.71	7.99	8.76	8.07	7.85
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0276	0.0271	0.0264	0.0269	0.0349	0.0359	0.0340	0.0331	0.0345	0.0370
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0487	0.0244	0.0244	0.0241	0.0318	0.0330	0.0319	0.0382	0.0394	0.0733
Magnesium - Total	mg/l	5.06	4.96	4.95	5.08	5.85	5.72 J	5.76 J	5.59	5.74	5.95
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	0.000071 J	0.000084 J	0.000095 J	0.000098 J	0.00011 J	0.00011 J	< 0.00020 U	< 0.00020 U	0.00010 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0233	0.0218	0.0212	0.0218	0.0286	0.0278	0.0276	0.0294	0.0305	0.0312
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0402	0.0400	0.0405	0.0402	0.0517	0.0529	0.0506	0.0522	0.0542	0.0563
Other											
Hardness (as CaCO3)	mg/l	39.2	39.0	39.0	39.8	44.0	42.8	43.7	44.9	43.8	44.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.052 U	0.013 J	0.074 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	0.22 J	0.18 J	0.061 J
2-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.095 J	< 0.053 U	< 0.052 UJ	0.011 J	0.27 J	0.21 J	0.055 J
Acenaphthene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.035 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	0.015 J	< 0.062 UJ	0.019 J
Acenaphthylene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.022 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Anthracene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.031 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.054 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.068 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.068 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.080 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.062 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Chrysene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.057 J	0.012 J	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.078 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.043 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	0.014 J
Fluorene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.039 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	0.036 J	0.038 J	0.059 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.080 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Naphthalene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.17 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	0.15 J	0.13 J	0.047 J
Phenanthrene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.055 J	< 0.053 U	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	< 0.069 U
Pyrene - Total	ug/l	< 0.051 UJ	0.011 J	< 0.051 UJ	0.045 J	0.011 J	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.062 UJ	0.022 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	1.1	1.0	1.0
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/3/2013	5/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)042913	WS-004(SURFACE)043013	WS-004(0.5-1.0)043013	WS-004(SURFACE)050113	WS-004(0.5-1.0)050113	WS-004(SURFACE)050213	WS-004(0.5-1.0)050213	WS-004(SURFACE)050313	WS-004(0.5-1.0)050313	WS-004(SURFACE)050413
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.7	0.7	1.9
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	7.3	6.9	7.3	7.0	6.6	6.6	7.6	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.2 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	0.3 J	0.2 J
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	0.1 J
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	0.1 J
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.2 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	1.9	14	13	7.6
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.5	2.8	2.7	2.6

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/4/2013	5/5/2013	5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)050413	WS-004(SURFACE)050513	WS-004(0.5-1.0)050513	WS-004(SURFACE)050613	WS-004(0.5-1.0)050613	WS-004(SURFACE)050713	WS-004(0.5-1.0)050713	WS-004(SURFACE)050813	WS-004(0.5-1.0)050813	WS-004(SURFACE)050913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	68	68	68	68	78	78	73	73	57
Dissolved Oxygen	mg/l	0.92	0	0	0	0	0	0	0	0	1.65
pH	SU	6.9	7.09	7.09	6.38	6.38	6.55	6.55	6.31	6.31	6.45
Temperature	deg C	15.51	16.13	16.13	17.42	17.42	18.12	18.12	22.56	22.56	27.19
Turbidity	NTU	800	747	747	662	662	665	665	6.15	6.15	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0077 J	0.0224	0.0211	0.0102 J	0.0126 J	0.0184 J	0.0215	0.0115 J	0.0120 J	0.0149 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.317	0.307	0.317	0.323	0.321	0.302	0.353	0.306	0.280	0.339
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00050 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00098 J	0.0014 J	0.00047 J	0.00050 J	< 0.0050 U
Calcium - Total	mg/l	7.76	7.33	7.38	7.63	7.61	7.91	8.92	7.96	8.88	7.83
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0369	0.0381	0.0415	0.0494	0.0469	0.0443	0.0505	0.0463	0.0355	0.0500
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0753	0.0371	0.0389	0.0771	0.0831	0.0405	0.0798	0.0341	0.0529	0.0724
Magnesium - Total	mg/l	6.01	6.01	6.33	6.76 J	6.71	6.44	7.10	6.91 J	6.05 J	7.05
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.00011 J	0.00011 J	0.00010 J	< 0.00020 U	0.000070 J	0.000075 J	0.000093 J	< 0.00020 U	0.000082 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0316	0.0332	0.0354	0.0356	0.0363	0.0337	0.0395	0.0347	0.0291	0.0375
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0579	0.0562	0.0614	0.0712	0.0675	0.0657	0.0734	0.0667	0.0525	0.0687
Other											
Hardness (as CaCO3)	mg/l	44.1	43.1	44.5	46.9	46.6	46.3	51.5	48.3	47.1	48.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.050 J	0.31 J	0.28 J	< 0.059 UJ	0.013 J	0.012 J	0.066 J	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
2-Methylnaphthalene - Total	ug/l	0.058 J	0.47 J	0.29 J	0.013 J	0.014 J	0.018 J	0.072	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Acenaphthene - Total	ug/l	0.024 J	0.19 J	0.036 J	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.012 J	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Acenaphthylene - Total	ug/l	< 0.057 UJ	0.021 J	0.022 J	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	< 0.051 U	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Anthracene - Total	ug/l	0.014 J	0.11 J	0.017 J	< 0.059 UJ	< 0.058 UJ	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Benzo(a)Anthracene - Total	ug/l	0.020 J	0.066 J	0.011 J	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.011 J	< 0.052 UJ	< 0.051 UJ	0.11 J
Benzo(a)Pyrene - Total	ug/l	0.016 J	0.026 J	< 0.053 UJ	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.016 J	< 0.052 UJ	< 0.051 UJ	0.014 J
Benzo(b)Fluoranthene - Total	ug/l	0.022 J	0.044 J	< 0.053 UJ	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.028 J	< 0.052 UJ	< 0.051 UJ	0.020 J
Benzo(g,h,i)Perylene - Total	ug/l	0.013 J	0.016 J	< 0.053 UJ	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.012 J	< 0.052 UJ	< 0.051 UJ	0.019 J
Benzo(k)Fluoranthene - Total	ug/l	0.016 J	0.017 J	< 0.053 UJ	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	< 0.051 U	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Chrysene - Total	ug/l	0.027 J	0.088 J	0.019 J	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.021 J	< 0.052 UJ	< 0.051 UJ	0.019 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.057 UJ	< 0.055 UJ	< 0.053 UJ	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	< 0.051 U	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Fluoranthene - Total	ug/l	0.026 J	0.41 J	0.015 J	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.023 J	< 0.052 UJ	< 0.051 UJ	0.030 J
Fluorene - Total	ug/l	0.048 J	0.31 J	0.077 J	< 0.059 UJ	0.015 J	< 0.051 UJ	0.023 J	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.012 J	0.014 J	< 0.053 UJ	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	0.011 J	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ
Naphthalene - Total	ug/l	0.085 J	0.64 J	0.16 J	< 0.059 UJ	< 0.058 UJ	0.080 J	0.057	< 0.052 UJ	< 0.051 UJ	0.081 J
Phenanthrene - Total	ug/l	< 0.057 UJ	1.0 J	0.056 J	< 0.059 UJ	< 0.058 UJ	< 0.051 UJ	< 0.051 U	< 0.052 UJ	< 0.051 UJ	0.039 J
Pyrene - Total	ug/l	0.031 J	0.25 J	0.023 J	< 0.059 UJ	0.016 J	0.013 J	0.029 J	< 0.052 UJ	0.014 J	0.033 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	1.0	0.7	0.8	0.3 J	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/4/2013	5/5/2013	5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)050413	WS-004(SURFACE)050513	WS-004(0.5-1.0)050513	WS-004(SURFACE)050613	WS-004(0.5-1.0)050613	WS-004(SURFACE)050713	WS-004(0.5-1.0)050713	WS-004(SURFACE)050813	WS-004(0.5-1.0)050813	WS-004(SURFACE)050913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.9	0.6	0.6	0.3 J	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	1.0 J	1.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	7.1	7.0	7.5	7.2	4.2 J	3.5 J	5.2	4.6 J	4.4 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.2 J	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	0.2 J	0.1 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	0.2 J	0.2 J	0.2 J	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	7.6	5.7	6.7	2.2	2.8	< 0.5 U	1.4	0.2 J	3.6	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	2.5	1.9	2.1	0.9	1.2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/9/2013	5/10/2013	5/10/2013	5/11/2013	5/11/2013	5/12/2013	5/12/2013	5/13/2013	5/13/2013	5/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)050913	WS-004(SURFACE)051013	WS-004(0.5-1.0)051013	WS-004(SURFACE)051113	WS-004(0.5-1.0)051113	WS-004(SURFACE)051213	WS-004(0.5-1.0)051213	WS-004(SURFACE)051313	WS-004(0.5-1.0)051313	WS-004(SURFACE)051413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	57	66	66	65	65	66	66	78	78	54
Dissolved Oxygen	mg/l	1.65	0	0	0.3	0.3	0	0	0	0	2.23
pH	SU	6.45	6.77	6.77	6.42	6.42	5.99	5.99	6.44	6.44	6.78
Temperature	deg C	27.19	22.8	22.8	21.83	21.83	20.46	20.46	19.97	19.97	25.79
Turbidity	NTU	800	800	800	566	566	800	800	625	625	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0118 J	0.0127 J	0.0132 J	0.0097 J	0.0168 J	0.0104 J	0.0109 J	0.0079 J	0.0248	0.0127 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.363	0.258	0.268	0.255	0.397	0.296	0.301	0.320	0.553	0.295
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00043 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00041 J	0.0011 J	< 0.0050 U
Calcium - Total	mg/l	8.29	7.07	7.49	8.24	10.3	7.76	8.10	7.74	12.0	7.18
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0562	0.0370	0.0389	0.0320	0.0531	0.0365	0.0368	0.0491	0.0933	0.0466
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0929	0.0621	0.0672	0.0309	0.148	0.0401	0.0465	0.147	0.448	0.131
Magnesium - Total	mg/l	7.73	5.94	6.19	5.77	7.15	6.23	6.39	7.09	9.94	7.00 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000078 J	< 0.00020 U	0.000076 J	0.000080 J	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0431	0.0302	0.0318	0.0248	0.0433	0.0316	0.0326	0.0379	0.0738	0.0366
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0016 J	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0793	0.0523	0.0550	0.0479	0.0750	0.0558 J	0.0588 J	0.0689	0.118	0.0650
Other											
Hardness (as CaCO3)	mg/l	52.5	42.1	44.2	44.3	55.1	45.0	46.5	48.5	70.8	46.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	0.013 J	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.013 J	< 0.052 UJ
2-Methylnaphthalene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	0.013 J	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.021 J	< 0.052 UJ
Acenaphthene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	< 0.053 U	< 0.052 UJ
Acenaphthylene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	< 0.053 U	< 0.052 UJ
Anthracene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	< 0.053 U	< 0.052 UJ
Benzo(a)Anthracene - Total	ug/l	0.037 J	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.036 J	< 0.052 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.048 J	< 0.052 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	0.013 J	0.014 J	< 0.051 UJ	< 0.050 UJ	0.012 J	0.091	< 0.052 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	0.012 J	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.038 J	< 0.052 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.029 J	< 0.052 UJ
Chrysene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	0.023 J	0.016 J	< 0.051 UJ	< 0.050 UJ	0.012 J	0.067	< 0.052 UJ
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	< 0.053 U	< 0.052 UJ
Fluoranthene - Total	ug/l	0.012 J	< 0.052 UJ	< 0.053 UJ	0.048 J	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.062	< 0.052 UJ
Fluorene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	< 0.053 U	< 0.052 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	0.011 J	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.038 J	< 0.052 UJ
Naphthalene - Total	ug/l	0.042 J	< 0.052 UJ	0.054 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	0.062 J	0.050 J	< 0.052 UJ
Phenanthrene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.052 UJ	0.032 J	< 0.052 UJ
Pyrene - Total	ug/l	0.016 J	< 0.052 UJ	< 0.053 UJ	0.040 J	0.015 J	< 0.051 UJ	< 0.050 UJ	0.020 J	0.061	< 0.052 UJ
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	4.6 J	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/9/2013	5/10/2013	5/10/2013	5/11/2013	5/11/2013	5/12/2013	5/12/2013	5/13/2013	5/13/2013	5/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)050913	WS-004(SURFACE)051013	WS-004(0.5-1.0)051013	WS-004(SURFACE)051113	WS-004(0.5-1.0)051113	WS-004(SURFACE)051213	WS-004(0.5-1.0)051213	WS-004(SURFACE)051313	WS-004(0.5-1.0)051313	WS-004(SURFACE)051413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.9	4.3 J	4.2 J	7.9	5.3	4.3 J	< 5.0 U	6.7	9.0	6.0
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.6	0.4 J	4.0	2.6	6.1	1.3	3.7	0.2 J	4.3	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/14/2013	5/15/2013	5/15/2013	5/16/2013	5/16/2013	5/17/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)051413	WS-004(SURFACE)051513	WS-004(0.5-1.0)051513	WS-004(SURFACE)051613	WS-004(0.5-1.0)051613	WS-004(SURFACE)051713	WS-004(0.5-1.0)051713	WS-004(SURFACE)051813	WS-004(0.5-1.0)051813	WS-004(SURFACE)051913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	54	55	55	56	56	79	79	64	64	63
Dissolved Oxygen	mg/l	2.23	0.98	0.98	0.06	0.06	0	0	0	0	0
pH	SU	6.78	6.3	6.3	6.37	6.37	6.29	6.29	6.36	6.36	6.36
Temperature	deg C	25.79	24.31	24.31	21.26	21.26	22.19	22.19	23.8	23.8	24.22
Turbidity	NTU	800	800	800	800	800	432	432	437	437	405
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0130 J	0.0172 J	0.0286	0.0178 J	0.0124 J	0.0152 J	0.0185 J	0.0088 J	0.0112 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.271	0.305	0.409	0.274	0.218	0.199	0.254	0.244	0.275	0.205
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	0.00066 J	0.0013 J	0.00065 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00096 J	0.00098 J	< 0.0050 U
Calcium - Total	mg/l	7.29	8.89	10.4	7.91	7.33	7.52	9.52	7.29	7.77	6.94
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0423	0.0407	0.0653	0.0456	0.0278	0.0282	0.0347	0.0296	0.0326	0.0155
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.117	0.0356	0.195	0.0374	0.0186	0.0285	0.0439	0.0271	0.0331	0.0134 J
Magnesium - Total	mg/l	6.67 J	6.13	7.54	6.49	4.75	4.97	5.76	5.30	5.70	4.06
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00012 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000070 J	< 0.00020 U	< 0.00020 U	0.000070 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0344	0.0351	0.0546	0.0339	0.0205	0.0230	0.0292	0.0244	0.0274	0.0133
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0580	0.0550	0.0814	0.0628	0.0393	0.0392	0.0478	0.0437	0.0485	0.0231
Other											
Hardness (as CaCO3)	mg/l	45.7	47.4	57.0	46.5	37.9	39.3	47.5	40.0	42.9	34.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.014 J	< 0.051 UJ	0.011 J	0.012 J	0.017 J	< 0.051 U	< 0.051 U	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.021 J	0.014 J	0.014 J	0.013 J	0.018 J	< 0.051 U	< 0.051 U	< 0.051 UJ
Acenaphthene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Acenaphthylene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Anthracene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.017 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.017 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 UJ	0.013 J	0.035 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.017 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.012 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Chrysene - Total	ug/l	< 0.050 UJ	0.016 J	0.032 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	0.013 J	0.012 J	< 0.051 UJ
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.031 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Fluorene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	0.016 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Naphthalene - Total	ug/l	< 0.050 UJ	< 0.12 UB	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	0.033 J	< 0.051 U	< 0.051 UJ
Phenanthrene - Total	ug/l	< 0.050 UJ	< 0.050 UJ	< 0.052 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ
Pyrene - Total	ug/l	< 0.050 UJ	0.018 J	0.030 J	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.050 UJ	0.013 J	0.012 J	< 0.051 UJ
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/14/2013	5/15/2013	5/15/2013	5/16/2013	5/16/2013	5/17/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)051413	WS-004(SURFACE)051513	WS-004(0.5-1.0)051513	WS-004(SURFACE)051613	WS-004(0.5-1.0)051613	WS-004(SURFACE)051713	WS-004(0.5-1.0)051713	WS-004(SURFACE)051813	WS-004(0.5-1.0)051813	WS-004(SURFACE)051913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.1	4.6 J	5.4	4.4 J	4.1 J	14	7.3	< 5.0 U	5.7	5.1
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	0.2 J	3.2	0.3 J	0.5 J	0.2 J	4.4	0.3 J	0.5	0.2 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/19/2013	5/20/2013	5/20/2013	5/21/2013	5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/23/2013	5/24/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)051913	WS-004(SURFACE)052013	WS-004(0.5-1.0)052013	WS-004(SURFACE)052113	WS-004(0.5-1.0)052113	WS-004(SURFACE)052213	WS-004(0.5-1.0)052213	WS-004(SURFACE)052313	WS-004(0.5-1.0)052313	WS-004(SURFACE)052413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	63	58	58	59	59	69	69	64	64	64
Dissolved Oxygen	mg/l	0	1.1	1.1	2.08	2.08	0.17	0.17	1.1	1.1	0.1
pH	SU	6.36	6.42	6.42	6.6	6.6	6.08	6.08	6.55	6.55	6.66
Temperature	deg C	24.22	27.4	27.4	24.12	24.12	22.47	22.47	24.51	24.51	22.9
Turbidity	NTU	405	0	0	800	800	631	631	800	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0082 J	0.0196 J	0.0259	< 0.0200 U	0.0110 J	0.0091 J	0.0098 J	0.0103 J	< 0.0200 U	0.0216
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.233	0.330	0.388	0.187	0.243	0.163	0.177	0.291 J	0.292 J	0.313
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	0.00045 J	0.00092 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0011 J	0.0012 J	0.00076 J
Calcium - Total	mg/l	6.95	8.40	9.24	6.93	6.97	6.25	6.38	7.46	7.75	6.93
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0218	0.0447	0.0573	0.0261	0.0347	0.0194	0.0178	0.0431	0.0398	0.0371
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0209	0.0924	0.140	0.0236	0.0289	0.0155	0.0162	0.0372	0.0518	0.0414
Magnesium - Total	mg/l	4.55	6.45	7.42	4.69	5.48	3.42 J	3.46 J	6.11	5.80	5.75 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000079 J	0.00011 J	0.00011 J	< 0.00020 U	< 0.00020 U	0.000081 J	0.000095 J	< 0.00020 U	0.000080 J	0.000095 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0186	0.0356	0.0470	0.0203	0.0259	0.0147	0.0143	0.0305	0.0301	0.0330
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	0.0013 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0323	0.0607	0.0761	0.0380	0.0484	0.0291 J	0.0275 J	0.0620	0.0570	0.0543
Other											
Hardness (as CaCO3)	mg/l	36.1	47.5	53.6	36.6	40.0	29.7	30.2	43.8	43.2	41.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 UJ	0.015 J	0.016 J	0.018 J	0.036 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
2-Methylnaphthalene - Total	ug/l	< 0.051 UJ	0.015 J	0.015 J	0.018 J	0.050 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Acenaphthene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Acenaphthylene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Anthracene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	0.012 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	0.022 J	0.013 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	0.025 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	0.014 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Chrysene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	0.029 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	0.020 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Fluorene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	0.011 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	0.012 J	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Naphthalene - Total	ug/l	< 0.051 UJ	0.051 J	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	0.050 J	0.073 J	< 0.050 UJ
Phenanthrene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
Pyrene - Total	ug/l	< 0.051 UJ	< 0.053 UJ	< 0.050 UJ	< 0.051 UB	< 0.051 UB	< 0.051 UJ	< 0.050 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	3.3 J	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/19/2013	5/20/2013	5/20/2013	5/21/2013	5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/23/2013	5/24/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)051913	WS-004(SURFACE)052013	WS-004(0.5-1.0)052013	WS-004(SURFACE)052113	WS-004(0.5-1.0)052113	WS-004(SURFACE)052213	WS-004(0.5-1.0)052213	WS-004(SURFACE)052313	WS-004(0.5-1.0)052313	WS-004(SURFACE)052413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	5.7	< 5.0 U	3.1 J	6.7	5.4	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	3.6 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.6	2.4	3.3	0.3 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/24/2013	5/25/2013	5/25/2013	5/26/2013	5/26/2013	5/27/2013	5/27/2013	5/28/2013	5/28/2013	5/29/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)052413	WS-004(SURFACE)052513	WS-004(0.5-1.0)052513	WS-004(SURFACE)052613	WS-004(0.5-1.0)052613	WS-004(SURFACE)052713	WS-004(0.5-1.0)052713	WS-004(SURFACE)052813	WS-004(0.5-1.0)052813	WS-004(SURFACE)052913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	64	66	66	64	64	65	65	67	67	64
Dissolved Oxygen	mg/l	0.1	1.66	1.66	1.2	1.2	1.26	1.26	2.15	2.15	2.15
pH	SU	6.66	6.74	6.74	6.83	6.83	6.51	6.51	6.59	6.59	6.57
Temperature	deg C	22.9	24.29	24.29	24.84	24.84	28.71	28.71	28.84	28.84	30.02
Turbidity	NTU	800	800	800	580	580	800	800	800	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0213	0.0114 J	0.0169 J	0.0188 J	0.0179 J	0.0102 J	0.0236	0.0317	0.0234	0.0158 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.321	0.301	0.350	0.395	0.306	0.273	0.502	0.317	0.230	0.235
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00079 J	< 0.0050 U	< 0.0050 U	0.0010 J	0.00089 J	< 0.0050 U	0.00074 J	0.00063 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.19	6.89	7.92	17.4	6.41	6.59	11.4	7.52	6.06	6.36
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0375	0.0399	0.0498	0.0470	0.0413	0.0319	0.0736	0.0515	0.0354	0.0366
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0434	0.0840	0.122	0.0379	0.0352	0.0640	0.331	0.114	0.0580	0.0742
Magnesium - Total	mg/l	5.85 J	5.76	6.63	6.55	5.78	5.19	7.77	6.16	5.05	5.43
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000097 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00016 J	0.000088 J	0.000076 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0330	0.0292	0.0370	0.0359	0.0326	0.0255	0.0607	0.0409	0.0290	0.0285
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0025 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0563	0.0587	0.0714	0.0676	0.0602	0.0462	0.101	0.0688	0.0498	0.0535
Other											
Hardness (as CaCO3)	mg/l	42.0	40.9	47.1	70.5	39.8	37.8	60.4	44.2	35.9	38.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.014 J	0.031 J	< 0.052 UJ	0.077
2-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.051 U	0.013 J	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.031 J	0.020 J	0.014 J	0.053
Acenaphthene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	< 0.052 UJ	< 0.057 U	< 0.052 UJ	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	< 0.052 UJ	< 0.057 U	< 0.052 UJ	< 0.052 U
Anthracene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	< 0.052 UJ	0.013 J	< 0.052 UJ	0.014 J
Benzo(a)Anthracene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.024 J	0.026 J	< 0.052 UJ	0.017 J
Benzo(a)Pyrene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	0.017 J	0.024 J	< 0.057 U	< 0.052 UJ	0.012 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 UJ	0.011 J	0.018 J	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.044 J	0.027 J	0.018 J	0.034 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 UJ	< 0.051 U	0.012 J	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.020 J	< 0.057 U	< 0.052 UJ	0.012 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.014 J	0.012 J	< 0.052 UJ	0.012 J
Chrysene - Total	ug/l	< 0.050 UJ	0.017 J	0.020 J	< 0.050 UJ	< 0.051 UJ	0.019 J	0.047 J	0.042 J	< 0.052 UJ	0.052
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	< 0.052 UJ	< 0.057 U	< 0.052 UJ	< 0.052 U
Fluoranthene - Total	ug/l	< 0.050 UJ	< 0.051 U	0.012 J	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.031 J	0.028 J	< 0.052 UJ	0.030 J
Fluorene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	< 0.052 UJ	< 0.057 U	< 0.052 UJ	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	0.020 J	< 0.057 U	< 0.052 UJ	0.012 J
Naphthalene - Total	ug/l	< 0.050 UJ	< 0.051 U	0.065 J	0.21 J	< 0.051 UJ	0.29 J	< 0.052 UJ	0.22	0.057 J	0.038 J
Phenanthrene - Total	ug/l	< 0.050 UJ	< 0.051 U	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	< 0.052 UJ	0.043 J	< 0.052 UJ	< 0.052 U
Pyrene - Total	ug/l	< 0.050 UJ	0.017 J	0.019 J	0.011 J	< 0.051 UJ	0.012 J	0.045 J	0.034 J	0.015 J	0.049 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/24/2013	5/25/2013	5/25/2013	5/26/2013	5/26/2013	5/27/2013	5/27/2013	5/28/2013	5/28/2013	5/29/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)052413	WS-004(SURFACE)052513	WS-004(0.5-1.0)052513	WS-004(SURFACE)052613	WS-004(0.5-1.0)052613	WS-004(SURFACE)052713	WS-004(0.5-1.0)052713	WS-004(SURFACE)052813	WS-004(0.5-1.0)052813	WS-004(SURFACE)052913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.3 J	4.6 J	4.1 J	4.7 J	< 5.0 U	4.1 J	4.6 J	5.1	4.3 J	5.4
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	0.5 J	0.8	< 0.5 U	0.3 J	0.2 J	1.6	0.5 J	0.4 J	0.4 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)052913	WS-004(SURFACE)053013	WS-004(0.5-1.0)053013	WS-004(SURFACE)053113	WS-004(0.5-1.0)053113	WS-004(SURFACE)060113	WS-004(0.5-1.0)060113	WS-004(SURFACE)060213	WS-004(0.5-1.0)060213	WS-004(SURFACE)060313
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	64	63	63	49	49	34	34	39	39	42
Dissolved Oxygen	mg/l	2.15	2.03	2.03	1.41	1.41	2.04	2.04	2.34	2.34	2.6
pH	SU	6.57	6.63	6.63	6.27	6.27	6.44	6.44	6.77	6.77	6.7
Temperature	deg C	30.02	27.85	27.85	25.28	25.28	23.85	23.85	25.39	25.39	24.97
Turbidity	NTU	800	281	281	323	323	156	156	191	191	448
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0127 J	0.0177 J	0.0206	0.0089 J	0.0116 J	0.0073 J	< 0.0200 U	< 0.0200 U	0.0092 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.216	0.187	0.331	0.106	0.107	0.140	0.0571	0.0396	0.0683	0.0445
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.61	5.47	8.16	4.11	4.15	4.57	2.65	2.73	3.92	3.19
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0346	0.0308	0.0433	0.0097 J	0.0136 J	0.0088 J	0.0071 J	0.0042 J	0.0091 J	0.0048 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0481	0.0242	0.177	0.0120 J	0.0141 J	0.0074 J	< 0.0150 U	< 0.0150 U	0.0328	0.0092 J
Magnesium - Total	mg/l	5.22	4.85 J	4.91 J	2.32	2.61	1.90	1.40	1.29	1.70	1.55
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00011 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0258	0.0234	0.0382	0.0090 J	0.0116	0.0088 J	0.0051 J	0.0035 J	0.0077 J	0.0057 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0089 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0512	0.0436	0.0591	0.0158	0.0205	0.0136	0.0111	0.0066	0.0127	0.0082
Other											
Hardness (as CaCO3)	mg/l	35.5	33.6	40.6	19.8	21.1	19.2	12.4	12.1	16.8	14.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	0.022 J	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.012 J	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	0.014 J	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	0.019 J	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.013 J	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	0.014 J	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	0.013 J
Fluorene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	0.012 J	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	0.096	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.051
Phenanthrene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	< 0.053 UJ	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 UJ	< 0.050 UJ	0.016 J	0.016 J	< 0.050 U	0.012 J	< 0.051 U	< 0.051 U	0.015 J	0.017 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)052913	WS-004(SURFACE)053013	WS-004(0.5-1.0)053013	WS-004(SURFACE)053113	WS-004(0.5-1.0)053113	WS-004(SURFACE)060113	WS-004(0.5-1.0)060113	WS-004(SURFACE)060213	WS-004(0.5-1.0)060213	WS-004(SURFACE)060313
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.6 J	< 5.0 U	4.1 J	4.4 J	4.0 J	< 5.0 U	< 5.0 U	3.6 J	3.6 J	3.5 J
Allyl chloride	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.6	< 0.5 U	2.6	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/3/2013	6/4/2013	6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)060313	WS-004(SURFACE)060413	WS-004(0.5-1.0)060413	WS-004(SURFACE)060513	WS-004(0.5-1.0)060513	WS-004(SURFACE)060613	WS-004(0.5-1.0)060613	WS-004(SURFACE)060713	WS-004(0.5-1.0)060713	WS-004(SURFACE)060813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	42	46	46	46	46	61	61	61	61	48
Dissolved Oxygen	mg/l	2.6	3.14	3.14	1.67	1.67	1.98	1.98	1.66	1.66	5.34
pH	SU	6.7	6.76	6.76	6.93	6.93	5.41	5.41	5.46	5.46	6.31
Temperature	deg C	24.97	26.88	26.88	27.74	27.74	27.75	27.75	25.3	25.3	28.34
Turbidity	NTU	448	427	427	191	191	77.4	77.4	390	390	29.5
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0218	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0108 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.256	0.0349	0.0440	0.0353	0.0561	0.0280	0.0599	0.0356	0.121	0.0356
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00086 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00045 J	0.00037 J	0.00095 J	< 0.0050 U
Calcium - Total	mg/l	7.48	3.13	3.42	3.06	3.46	3.05	3.70	3.70	5.06	3.50
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0546	0.0033 J	0.0041 J	0.0038 J	0.0072 J	0.0024 J	0.0076 J	0.0037 J	0.0177	0.0026 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.269	< 0.0150 U	0.0080 J	0.0057 J	0.0187	< 0.0150 U	0.0220	< 0.0150 U	0.0678	0.0052 J
Magnesium - Total	mg/l	4.24	1.45	1.52	1.47	1.73	1.42	1.85	1.68	2.70	1.61
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	0.0109 J	0.000074 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0420	0.0034 J	0.0043 J	0.0038 J	0.0064 J	0.0031 J	0.0072 J	0.0032 J	0.0148	0.0036 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0614	0.0048 J	0.0062	0.0052	0.0097	0.0039 J	0.0093	0.0053	0.0226	0.0049 J
Other											
Hardness (as CaCO3)	mg/l	36.2	13.8	14.8	13.7	15.8	13.5	16.9	16.1	23.8	15.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	0.011 J	0.012 J	0.017 J	< 0.051 U	0.013 J	< 0.055 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	0.011 J	0.011 J	< 0.051 U	0.014 J	< 0.051 U	0.014 J	< 0.055 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	0.016 J	< 0.051 U	0.015 J	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	0.019 J	< 0.051 U	< 0.051 U	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	0.013 J	< 0.051 U	< 0.051 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.055 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	0.012 J	< 0.051 U	0.012 J	< 0.055 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.050 U	< 0.051 U	0.012 J	< 0.051 U	0.013 J	< 0.055 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/3/2013	6/4/2013	6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)060313	WS-004(SURFACE)060413	WS-004(0.5-1.0)060413	WS-004(SURFACE)060513	WS-004(0.5-1.0)060513	WS-004(SURFACE)060613	WS-004(0.5-1.0)060613	WS-004(SURFACE)060713	WS-004(0.5-1.0)060713	WS-004(SURFACE)060813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.3 J	< 5.0 U	< 5.0 U	3.7 J	3.6 J	3.4 J	3.6 J	4.3 J	5.1	4.6 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	2.7	< 0.5 U	0.3 J	0.2 J	1.1	0.1 J	0.8	0.2 J	6.1	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/8/2013	6/9/2013	6/9/2013	6/10/2013	6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/13/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)060813	WS-004(SURFACE)060913	WS-004(0.5-1.0)060913	WS-004(SURFACE)061013	WS-004(0.5-1.0)061013	WS-004(SURFACE)061113	WS-004(0.5-1.0)061113	WS-004(SURFACE)061213	WS-004(0.5-1.0)061213	WS-004(SURFACE)061313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	48	58	58	61	61	63	63	62	62	63
Dissolved Oxygen	mg/l	5.34	2.97	2.97	1.64	1.64	1.76	1.76	2.98	2.98	2.42
pH	SU	6.31	6.32	6.32	6.05	6.05	6.3	6.3	6.27	6.27	6.08
Temperature	deg C	28.34	27.05	27.05	25.75	25.75	26.32	26.32	28.47	28.47	31.54
Turbidity	NTU	29.5	30	30	39.6	39.6	35.2	35.2	39.5	39.5	29.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0106 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0082 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0769	0.0351	0.0573	0.0346	0.0798	0.0326	0.0708	0.0326	0.0809	0.0224
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00036 J	< 0.0050 U	0.00037 J	< 0.0050 U	0.00062 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00061 J	< 0.0050 U
Calcium - Total	mg/l	4.29	3.67	4.28	3.89	4.93	3.85	4.74	3.92	4.92	3.70
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0094 J	0.0023 J	0.0063 J	0.0025 J	0.0113 J	0.0015 J	0.0080 J	0.0017 J	0.0097 J	0.0019 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0368	0.0107 J	0.0280	0.0085 J	0.0576	< 0.0150 U	0.0339	< 0.0150 U	0.0462	< 0.0150 U
Magnesium - Total	mg/l	2.15	1.64	1.96	1.74	2.40	1.63	2.05	1.79	2.32	1.55
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000077 J	0.000078 J	0.000075 J	< 0.00020 U	< 0.00020 U	< 0.00020 UJ	0.000094 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0094 J	0.0029 J	0.0059 J	0.0027 J	0.0096 J	0.0026 J	0.0081 J	0.0024 J	0.0088 J	0.0019 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0134	0.0042 J	0.0085	0.0045 J	0.0140	0.0031 J	0.0099	0.0029 J	0.0123	0.0025 J
Other											
Hardness (as CaCO3)	mg/l	19.6	15.9	18.8	16.9	22.2	16.3	20.3	17.1	21.8	15.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	0.011 J	0.013 J	0.015 J	0.015 J	0.012 J	0.012 J	0.013 J	0.014 J	< 0.052 U
2-Methylnaphthalene - Total	ug/l	0.011 J	0.013 J	0.015 J	0.016 J	0.017 J	< 0.056 U	0.011 J	< 0.050 U	0.011 J	< 0.052 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	0.014 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	0.012 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	0.027 J	< 0.050 U	< 0.051 U	< 0.051 U	0.014 J	< 0.056 U	< 0.051 U	< 0.050 U	0.011 J	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	0.017 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	0.022 J	< 0.050 U	< 0.051 U	< 0.051 U	0.011 J	< 0.056 U	< 0.051 U	< 0.050 U	0.011 J	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	0.023 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.016 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	0.025 J	< 0.050 U	< 0.051 U	< 0.051 U	0.011 J	< 0.056 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/8/2013	6/9/2013	6/9/2013	6/10/2013	6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/13/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)060813	WS-004(SURFACE)060913	WS-004(0.5-1.0)060913	WS-004(SURFACE)061013	WS-004(0.5-1.0)061013	WS-004(SURFACE)061113	WS-004(0.5-1.0)061113	WS-004(SURFACE)061213	WS-004(0.5-1.0)061213	WS-004(SURFACE)061313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.5 J	4.7 J	4.6 J	4.6 J	4.5 J	3.9 J	3.7 J	< 5.0 U	3.9 J	3.0 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	4.0	0.1 J	2.2	< 0.5 U	2.8	0.1 J	1.7	0.3 J	2.1	0.2 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/13/2013	6/14/2013	6/14/2013	6/15/2013	6/15/2013	6/16/2013	6/16/2013	6/17/2013	6/17/2013	6/18/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)061313	WS-004(SURFACE)061413	WS-004(0.5-1.0)061413	WS-004(SURFACE)061513	WS-004(0.5-1.0)061513	WS-004(SURFACE)061613	WS-004(0.5-1.0)061613	WS-004(SURFACE)061713	WS-004(0.5-1.0)061713	WS-004(SURFACE)061813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	63	70	70	69	69	78	78	62	62	58
Dissolved Oxygen	mg/l	2.42	1.21	1.21	2.44	2.44	0.88	0.88	3.33	3.33	3.71
pH	SU	6.08	6.27	6.27	6.04	6.04	5.99	5.99	6.01	6.01	6.22
Temperature	deg C	31.54	28.19	28.19	28.06	28.06	27.7	27.7	29.15	29.15	28.79
Turbidity	NTU	29.2	99.3	99.3	453	453	50.7	50.7	52.2	52.2	24.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0131 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0429	0.0738	0.0481	0.169	0.305	0.0563	0.165	0.0271	0.0851	0.0218
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	0.00052 J	0.00044 J	0.00059 J	0.0021 J	0.00039 J	0.0011 J	< 0.0050 U	< 0.0050 U	0.00052 J
Calcium - Total	mg/l	3.91	10.1	4.91	5.29	9.32	4.67	7.37	3.78	5.52	3.76
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0042 J	0.0031 J	0.0049 J	0.0038 J	0.0522	0.0031 J	0.0213	0.0016 J	0.0093 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0071 J	0.0153	0.0201	0.0082 J	0.285	0.0172	0.143	< 0.0150 U	0.0565	< 0.0150 U
Magnesium - Total	mg/l	1.72	2.20	2.16	2.58	5.29	2.11	3.41	1.68	2.50	1.67
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00013 J	< 0.00020 U	0.000075 J	< 0.00020 U	0.000076 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0039 J	0.0044 J	0.0046 J	0.0038 J	0.0421	0.0036 J	0.0182	0.0025 J	0.0092 J	0.0013 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0075 J	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0056	0.0051	0.0064	0.0060	0.0601	0.0045 J	0.0276	0.0025 J	0.0123	0.0018 J
Other											
Hardness (as CaCO3)	mg/l	16.9	34.4	21.2	23.8	45.1	20.4	32.4	16.4	24.1	16.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.015 J	0.012 J	0.012 J	0.019 J	0.017 J	0.024 J	0.023 J	0.018 J	0.020 J	0.015 J
2-Methylnaphthalene - Total	ug/l	0.017 J	< 0.052 U	< 0.050 U	0.014 J	0.013 J	0.016 J	0.020 J	0.012 J	0.014 J	< 0.055 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.055 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	0.015 J	< 0.053 U	0.014 J	< 0.053 U	0.018 J	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	0.012 J	< 0.053 U	0.015 J	< 0.053 U	0.018 J	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	0.018 J	< 0.052 U	< 0.050 U	0.022 J	0.029 J	< 0.053 U	0.036 J	< 0.053 U	0.041 J	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	0.020 J	< 0.053 U	0.017 J	< 0.053 U	0.014 J	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	0.011 J	< 0.053 U	0.013 J	< 0.053 U	0.021 J	< 0.055 U
Chrysene - Total	ug/l	0.013 J	< 0.052 U	< 0.050 U	0.024 J	0.025 J	0.022 J	0.030 J	< 0.053 U	0.036 J	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.055 U
Fluoranthene - Total	ug/l	0.016 J	< 0.052 U	< 0.050 U	0.017 J	0.026 J	0.015 J	0.026 J	< 0.053 U	0.045 J	< 0.055 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	0.011 J	< 0.053 U	0.013 J	< 0.055 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.053 U	0.032 J	< 0.055 U
Pyrene - Total	ug/l	0.014 J	< 0.052 U	< 0.050 U	0.019 J	0.025 J	0.019 J	0.029 J	< 0.053 U	0.041 J	< 0.055 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/13/2013	6/14/2013	6/14/2013	6/15/2013	6/15/2013	6/16/2013	6/16/2013	6/17/2013	6/17/2013	6/18/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)061313	WS-004(SURFACE)061413	WS-004(0.5-1.0)061413	WS-004(SURFACE)061513	WS-004(0.5-1.0)061513	WS-004(SURFACE)061613	WS-004(0.5-1.0)061613	WS-004(SURFACE)061713	WS-004(0.5-1.0)061713	WS-004(SURFACE)061813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.0 J	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.4 J	< 5.0 U	3.3 J	5.3	3.5 J	3.1 J	4.2 J	3.8 J	4.1 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1.7	0.5 J	1.4	0.1 J	3.8	0.6	9.6	0.3 J	4.4	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/18/2013	6/19/2013	6/19/2013	6/20/2013	6/20/2013	6/21/2013	6/21/2013	6/22/2013	6/22/2013	6/23/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)061813	WS-004(SURFACE)061913	WS-004(0.5-1.0)061913	WS-004(SURFACE)062013	WS-004(0.5-1.0)062013	WS-004(SURFACE)062113	WS-004(0.5-1.0)062113	WS-004(SURFACE)062213	WS-004(0.5-1.0)062213	WS-004(SURFACE)062313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	58	66	66	64	64	76	76	62	62	61
Dissolved Oxygen	mg/l	3.71	3.03	3.03	3.68	3.68	1.4	1.4	3.25	3.25	4.09
pH	SU	6.22	6.29	6.29	6.07	6.07	5.55	5.55	6.28	6.28	6.75
Temperature	deg C	28.79	29.19	29.19	29.77	29.77	28.3	28.3	29.86	29.86	32.57
Turbidity	NTU	24.2	26.2	26.2	30.2	30.2	58.4	58.4	99.6	99.6	39.9
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0195 J	< 0.0200 U	0.0124 J	0.0072 J	0.0159 J	0.0112 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0346	0.0396	0.197	0.0275	0.0901	0.0864	0.150	0.120	0.0343	0.0243
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0010 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.57	3.68	6.44	3.91	5.25	4.64	6.37	5.31	4.55	3.64
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0012 J	0.0021 J	0.0250	0.0017 J	0.0112 J	0.0027 J	0.0237	0.0029 J	0.0021 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0188	0.168	< 0.0150 U	0.0366	0.0048 J	0.0938	0.0091 J	0.0081 J	< 0.0150 U
Magnesium - Total	mg/l	1.73	1.63 J	3.18 J	1.66	2.53	2.05	3.30	2.20	1.86	1.59
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00013 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000079 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0024 J	0.0033 J	0.0248	< 0.0100 U	0.0088 J	0.0041 J	0.0172	0.0039 J	0.0017 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0024 J	0.0042 J	0.0361	< 0.0050 U	0.0143	0.0041 J	0.0282	0.0050	0.0026 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	18.5	15.9	29.2	16.6	23.5	20.0	29.5	22.3	19.0	15.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.016 J	0.016 J	0.018 J	0.014 J	0.016 J	0.018 J	0.035 J	0.013 J	0.020 J	0.013 J
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	0.014 J	< 0.051 U	< 0.051 U	0.012 J	0.035 J	< 0.052 U	0.016 J	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	0.015 J	< 0.051 U	< 0.051 U	< 0.052 U	0.033 J	< 0.052 U	0.014 J	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	0.020 J	< 0.051 U	< 0.051 U	< 0.052 U	0.042 J	< 0.052 U	0.017 J	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	0.038 J	< 0.051 U	< 0.051 U	< 0.052 U	0.094	0.013 J	0.039 J	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	0.015 J	< 0.051 U	< 0.051 U	< 0.052 U	0.041 J	0.019 J	0.021 J	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	0.013 J	< 0.051 U	< 0.051 U	< 0.052 U	0.031 J	< 0.052 U	0.012 J	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	0.029 J	< 0.051 U	< 0.051 U	0.012 J	0.064	0.011 J	0.026 J	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	0.035 J	< 0.051 U	< 0.051 U	< 0.052 U	0.064	0.011 J	0.029 J	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.015 J	< 0.052 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	0.013 J	< 0.051 U	< 0.051 U	< 0.052 U	0.029 J	< 0.052 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.11	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.047 J	< 0.052 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	0.030 J	< 0.051 U	< 0.051 U	0.014 J	0.062	0.012 J	0.031 J	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	1.6 J	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/18/2013	6/19/2013	6/19/2013	6/20/2013	6/20/2013	6/21/2013	6/21/2013	6/22/2013	6/22/2013	6/23/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)061813	WS-004(SURFACE)061913	WS-004(0.5-1.0)061913	WS-004(SURFACE)062013	WS-004(0.5-1.0)062013	WS-004(SURFACE)062113	WS-004(0.5-1.0)062113	WS-004(SURFACE)062213	WS-004(0.5-1.0)062213	WS-004(SURFACE)062313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.5 J	7.5	3.5 J	5.7	5.2	4.3 J	< 5.0 U	3.5 J	4.1 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.5 J	1.4	13	< 0.5 U	3.2	0.2 J	4.9	< 0.5 U	0.4 J	0.2 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/23/2013	6/24/2013	6/24/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/27/2013	6/27/2013	6/28/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)062313	WS-004(SURFACE)062413	WS-004(0.5-1.0)062413	WS-004(SURFACE)062513	WS-004(0.5-1.0)062513	WS-004(SURFACE)062613	WS-004(0.5-1.0)062613	WS-004(SURFACE)062713	WS-004(0.5-1.0)062713	WS-004(SURFACE)062813
Validation Level		Tier II	Tier III	Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	61	64	64	63	63	70	70	65	65	105
Dissolved Oxygen	mg/l	4.09	3.36	3.36	2.62	2.62	2.81	2.81	2.63	2.63	0.5
pH	SU	6.75	6.41	6.41	5.92	5.92	6.06	6.06	6.05	6.05	5.89
Temperature	deg C	32.57	30.24	30.24	30.49	30.49	30.97	30.97	32.7	32.7	30.83
Turbidity	NTU	39.9	139	139	27.3	27.3	31.5	31.5	19.9	19.9	17.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0073 J	< 0.0200 U	0.0138 J	0.0105 J	0.0230	< 0.0200 U	0.0151 J	< 0.0200 U	0.0462	0.0080 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0371	0.0946	0.180	0.176	0.210	0.0391	0.144	0.0233	0.866	0.0738
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0019 J	< 0.0050 U
Calcium - Total	mg/l	4.35	4.70	7.29	5.24	7.71	3.86	6.23	4.20	19.5	4.74
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0026 J	< 0.0150 U	0.0273	0.0030 J	0.0315	< 0.0150 U	0.0202	< 0.0150 U	0.146	0.0064 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0122 J	< 0.0150 U	0.133	0.0068 J	0.148	< 0.0150 U	0.0883	< 0.0150 U	0.574	0.0276
Magnesium - Total	mg/l	1.75	2.00	3.53	1.98	3.69	1.57	2.94	1.65	11.8	2.02 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000070 J	< 0.00020 U	< 0.00020 U	0.000074 J	0.000061 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0022 J	0.0032 J	0.0233	0.0034 J	0.0232	< 0.0100 U	0.0152	< 0.0100 U	0.114	0.0068 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0173 J	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0040 J	0.0037 J	0.0332	0.0052	0.0346	< 0.0050 U	0.0239	0.0029 J	0.169	0.0090
Other											
Hardness (as CaCO3)	mg/l	18.1	20.0	32.7	21.2	34.4	16.1	27.6	17.3	97.2	20.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.021 J	< 0.055 U	0.042 J	0.015 J	0.024 J	0.016 J	0.045 J	0.012 J	0.020 J	0.011 J
2-Methylnaphthalene - Total	ug/l	0.015 J	< 0.055 U	0.049 J	< 0.052 U	0.024 J	0.011 J	0.040 J	< 0.053 U	0.019 J	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.050 UJ	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.050 UJ	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.050 UJ	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	0.027 J	< 0.052 U	0.014 J	< 0.051 U	0.034 J	< 0.053 U	< 0.050 UJ	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	0.014 J	< 0.055 U	0.053	< 0.052 U	0.012 J	< 0.051 U	0.049 J	< 0.053 U	< 0.050 UJ	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.037 J	< 0.055 U	0.10	0.012 J	0.029 J	< 0.051 U	0.11	< 0.053 U	0.012 J	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	0.018 J	0.017 J	0.045 J	0.018 J	0.029 J	< 0.051 U	0.040 J	< 0.053 U	< 0.050 UJ	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	0.033 J	< 0.052 U	0.012 J	< 0.051 U	0.034 J	< 0.053 U	< 0.050 UJ	< 0.051 U
Chrysene - Total	ug/l	0.022 J	< 0.055 U	0.057	0.012 J	0.027 J	< 0.051 U	0.074	< 0.053 U	< 0.050 UJ	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 UJ	0.014 J	< 0.051 U	< 0.053 U	< 0.053 U	< 0.050 UJ	< 0.051 U
Fluoranthene - Total	ug/l	0.024 J	< 0.055 U	0.040 J	0.014 J	0.019 J	< 0.051 U	0.066	< 0.053 U	< 0.050 UJ	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.055 U	0.016 J	< 0.052 U	< 0.052 U	< 0.051 U	0.015 J	< 0.053 U	< 0.050 UJ	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.055 U	0.035 J	< 0.052 U	0.015 J	< 0.051 U	0.028 J	< 0.053 U	< 0.050 UJ	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 UB	< 0.053 UB	< 0.053 U	< 0.050 UJ	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.055 U	0.037 J	< 0.052 U	< 0.052 U	< 0.051 U	0.041 J	< 0.053 U	< 0.050 UJ	< 0.051 U
Pyrene - Total	ug/l	0.027 J	< 0.055 U	0.044 J	< 0.052 U	0.024 J	< 0.051 U	0.078	< 0.053 U	< 0.050 UJ	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/23/2013	6/24/2013	6/24/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/27/2013	6/27/2013	6/28/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)062313	WS-004(SURFACE)062413	WS-004(0.5-1.0)062413	WS-004(SURFACE)062513	WS-004(0.5-1.0)062513	WS-004(SURFACE)062613	WS-004(0.5-1.0)062613	WS-004(SURFACE)062713	WS-004(0.5-1.0)062713	WS-004(SURFACE)062813
Validation Level		Tier II	Tier III	Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	< 5.0 U	1.0 J	< 5.0 U	1.0 J	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.8 J	3.0 J	3.7 J	3.2 J	7.5	< 5.0 U	4.0 J	3.2 J	7.2	3.8 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1	0.7	3.0	0.5	14	0.3 J	12	0.3 J	11	1.8
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/28/2013	6/29/2013	6/29/2013	6/30/2013	6/30/2013	7/1/2013	7/1/2013	7/2/2013	7/2/2013	7/3/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)062813	WS-004(SURFACE)062913	WS-004(0.5-1.0)062913	WS-004(SURFACE)063013	WS-004(0.5-1.0)063013	WS-004(SURFACE)070113	WS-004(0.5-1.0)070113	WS-004(SURFACE)070213	WS-004(0.5-1.0)070213	WS-004(SURFACE)070313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	105	68	68	66	66	81	81	79	79	68
Dissolved Oxygen	mg/l	0.5	2.29	2.29	2	2	1.7	1.7	2.58	2.58	2.49
pH	SU	5.89	6.92	6.92	6.1	6.1	6.06	6.06	5.79	5.79	6.17
Temperature	deg C	30.83	29.9	29.9	26.8	26.8	27.71	27.71	25.8	25.8	26.7
Turbidity	NTU	17.2	24.2	24.2	69.7	69.7	30.6	30.6	28.3	28.3	28.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0196 J	< 0.0200 U	0.0188 J	0.0116 J	0.0094 J	0.0072 J	0.0225	< 0.0200 U	0.0088 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.203	0.239	0.158	0.101	0.0767	0.0406	0.238	0.0316	0.101	0.0274
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.00077 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0011 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.83	7.72	5.92	5.83	5.46	4.03	7.58	4.21 J	5.77 J	4.10
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0276	< 0.0150 U	0.0203	0.0086 J	0.0065 J	0.0020 J	0.0323	0.0017 J	0.0090 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.108	< 0.0150 U	0.0953	0.0495	0.0334	0.0086 J	0.141	< 0.0150 U	0.0336	< 0.0150 U
Magnesium - Total	mg/l	3.90 J	2.12 J	3.02 J	2.43 J	2.25 J	1.70	4.03	1.72	2.50	1.73
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0241	0.0068 J	0.0193	0.0089 J	0.0059 J	0.0028 J	0.0285	0.0022 J	0.0088 J	0.0017 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0350	< 0.0050 U	0.0236	0.0113	0.0078	0.0031 J	0.0388	0.0029 J	0.0120	0.0022 J
Other											
Hardness (as CaCO3)	mg/l	35.6	28.0	27.2	24.5	22.9	17.1	35.5	17.6	24.7	17.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.023 J	0.013 J	0.019 J	0.015 J	0.023 J	0.012 J	0.027 J	0.018 J	0.030 J	0.015 J
2-Methylnaphthalene - Total	ug/l	0.022 J	< 0.051 U	0.017 J	< 0.054 U	0.025 J	< 0.052 U	0.028 J	0.015 J	0.037 J	0.013 J
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.059 U	< 0.055 U	< 0.051 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.059 U	< 0.055 U	< 0.051 U	< 0.054 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.059 U	< 0.055 U	0.015 J	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.017 J	< 0.052 U	0.012 J	< 0.055 U	0.035 J	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.022 J	< 0.052 U	0.013 J	< 0.055 U	0.051	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.036 J	< 0.052 U	0.026 J	< 0.055 U	0.083	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.027 J	< 0.052 U	0.013 J	< 0.055 U	0.049 J	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.023 J	< 0.052 U	< 0.059 U	< 0.055 U	0.056	< 0.054 U
Chrysene - Total	ug/l	0.011 J	< 0.051 U	< 0.052 U	< 0.054 U	0.032 J	< 0.052 U	0.022 J	< 0.055 U	0.071	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.012 J	< 0.052 U	< 0.059 U	< 0.055 U	< 0.051 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.034 J	< 0.052 U	0.019 J	< 0.055 U	0.076	< 0.054 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.015 J	< 0.052 U	0.014 J	< 0.055 U	0.014 J	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.023 J	< 0.052 U	< 0.059 U	< 0.055 U	0.039 J	< 0.054 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	0.094	< 0.051 U	< 0.052 U	< 0.059 U	0.044 J	< 0.051 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.059 U	< 0.055 U	0.041 J	< 0.054 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.054 U	0.034 J	< 0.052 U	0.023 J	< 0.055 U	0.079	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	3.6 J	< 5.0 U	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		6/28/2013	6/29/2013	6/29/2013	6/30/2013	6/30/2013	7/1/2013	7/1/2013	7/2/2013	7/2/2013	7/3/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)062813	WS-004(SURFACE)062913	WS-004(0.5-1.0)062913	WS-004(SURFACE)063013	WS-004(0.5-1.0)063013	WS-004(SURFACE)070113	WS-004(0.5-1.0)070113	WS-004(SURFACE)070213	WS-004(0.5-1.0)070213	WS-004(SURFACE)070313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.4	3.7 J	5.2	3.3 J	4.5 J	3.5 J	7.9	< 5.0 U	3.1 J	4.1 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	23	1.8	5.1	0.3 J	5.4	4.6	21	< 0.5 U	1.5	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		7/3/2013	7/4/2013	7/4/2013	7/5/2013	7/5/2013	7/6/2013	7/6/2013	7/7/2013	7/7/2013	7/8/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)070313	WS-004(SURFACE)070413	WS-004(0.5-1.0)070413	WS-004(SURFACE)070513	WS-004(0.5-1.0)070513	WS-004(SURFACE)070613	WS-004(0.5-1.0)070613	WS-004(SURFACE)070713	WS-004(0.5-1.0)070713	WS-004(SURFACE)070813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	68	59	59	70	70	67	67	76	76	70
Dissolved Oxygen	mg/l	2.49	3.33	3.33	2.3	2.3	1.33	1.33	1.32	1.32	1.72
pH	SU	6.17	6.73	6.73	6.03	6.03	5.96	5.96	5.85	5.85	5.87
Temperature	deg C	26.7	28.2	28.2	25.86	25.86	26.42	26.42	27.39	27.39	30.43
Turbidity	NTU	28.3	177	177	41.7	41.7	78.2	78.2	80.9	80.9	136
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	0.0071 J	0.0361	0.0077 J	< 0.0200 U	0.0152 J	0.0154 J	0.0088 J	0.0129 J	0.0177 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0704	0.0470	0.375	0.0643	0.0408	0.288	0.152	0.111	0.0898	0.281
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0026 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00080 J	< 0.0050 U	< 0.0050 U	0.0011 J
Calcium - Total	mg/l	5.25	4.10	10.4	5.12	4.55	6.43 J	6.83 J	5.05 J	5.85 J	14.4
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0053 J	0.0037 J	0.0641	< 0.0150 U	< 0.0150 U	0.0035 J	0.0121 J	0.0018 J	0.0077 J	0.0324
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0258	0.0180	0.243	0.0053 J	0.0047 J	0.0098 J	0.0338	< 0.0150 U	0.0251	0.0751
Magnesium - Total	mg/l	2.20	1.75	5.94	2.13	1.86	2.53 J	3.22 J	2.08 J	2.58 J	4.46
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00011 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0053 J	0.0044 J	0.0509	0.0024 J	0.0021 J	0.0050 J	0.0133	0.0031 J	0.0083 J	0.0308
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0082	0.0063	0.0751	0.0038 J	0.0029 J	0.0075	0.0187	0.0036 J	0.0119	0.0420
Other											
Hardness (as CaCO3)	mg/l	22.2	17.4	50.3	21.5	19.0	26.5	30.3	21.2	25.3	54.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.022 J	0.015 J	0.034 J	0.013 J	0.011 J	0.017 J	0.023 J	0.012 J	0.025 J	0.042 J
2-Methylnaphthalene - Total	ug/l	0.023 J	0.015 J	0.046 J	0.012 J	< 0.051 U	0.018 J	0.032 J	0.012 J	0.032 J	0.053
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	0.012 J	0.014 J	< 0.052 U	< 0.051 U	0.016 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	0.017 J	< 0.051 U	0.040 J	< 0.052 U	< 0.051 U	0.019 J	0.021 J	< 0.051 U	0.021 J	0.038 J
Benzo(a)Pyrene - Total	ug/l	0.015 J	< 0.051 U	0.046 J	< 0.052 U	< 0.051 U	0.011 J	0.024 J	< 0.051 U	0.021 J	0.053
Benzo(b)Fluoranthene - Total	ug/l	0.025 J	< 0.051 U	0.095	< 0.052 U	< 0.051 U	0.023 J	0.044 J	< 0.051 U	0.034 J	0.13
Benzo(g,h,i)Perylene - Total	ug/l	0.018 J	< 0.051 U	0.056	< 0.052 U	< 0.051 U	0.016 J	0.032 J	< 0.051 U	0.027 J	0.043 J
Benzo(k)Fluoranthene - Total	ug/l	0.017 J	< 0.051 U	0.053 J	< 0.052 U	< 0.051 U	0.012 J	0.025 J	< 0.051 U	0.024 J	0.038 J
Chrysene - Total	ug/l	0.023 J	0.011 J	0.085	< 0.052 U	< 0.051 U	0.028 J	0.043 J	< 0.051 U	0.035 J	0.052
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J
Fluoranthene - Total	ug/l	0.029 J	0.012 J	0.10	< 0.052 U	< 0.051 U	0.020 J	0.041 J	< 0.051 U	0.037 J	0.069
Fluorene - Total	ug/l	0.012 J	< 0.051 U	0.022 J	< 0.052 U	< 0.051 U	0.015 J	0.014 J	< 0.051 U	0.015 J	0.015 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.017 J	< 0.051 U	0.045 J	< 0.052 U	< 0.051 U	0.011 J	0.026 J	< 0.051 U	0.025 J	0.030 J
Naphthalene - Total	ug/l	< 0.051 U	0.039 J	< 0.053 U	0.044 J	0.14	0.24	< 0.051 U	< 0.051 U	0.041 J	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	0.055	< 0.052 U	< 0.051 U	< 0.052 U	0.034 J	< 0.051 U	0.034 J	0.037 J
Pyrene - Total	ug/l	0.033 J	0.015 J	0.12	< 0.052 U	< 0.051 U	0.026 J	0.046 J	< 0.051 U	0.045 J	0.092
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		7/3/2013	7/4/2013	7/4/2013	7/5/2013	7/5/2013	7/6/2013	7/6/2013	7/7/2013	7/7/2013	7/8/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)070313	WS-004(SURFACE)070413	WS-004(0.5-1.0)070413	WS-004(SURFACE)070513	WS-004(0.5-1.0)070513	WS-004(SURFACE)070613	WS-004(0.5-1.0)070613	WS-004(SURFACE)070713	WS-004(0.5-1.0)070713	WS-004(SURFACE)070813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	1.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.4 J	4.7 J	7.6	3.0 J	< 5.0 U	6.2	3.6 J	3.6 J	3.4 J	6.7 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	3.5	7.2	21	1.5	0.1 J	1.3	1.3	1	0.6	22
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		7/8/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/12/2013	7/12/2013	7/13/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)070813	WS-004(SURFACE)070913	WS-004(0.5-1.0)070913	WS-004(SURFACE)071013	WS-004(0.5-1.0)071013	WS-004(SURFACE)071113	WS-004(0.5-1.0)071113	WS-004(SURFACE)071213	WS-004(0.5-1.0)071213	WS-004(SURFACE)071313
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	70	70	70	63	63	89	89	70	70	72
Dissolved Oxygen	mg/l	1.72	2.17	2.17	2.36	2.36	0.35	0.35	0.32	0.32	3.19
pH	SU	5.87	5.83	5.83	6.24	6.24	6.11	6.11	5.97	5.97	7.5
Temperature	deg C	30.43	30.24	30.24	31.25	31.25	28.15	28.15	26.19	26.19	28.57
Turbidity	NTU	136	225	225	209	209	369	369	48.5	48.5	62
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0186 J	0.0116 J	0.0203	0.0086 J	0.0230	< 0.0200 U	0.0098 J	0.0078 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.346	0.232	0.293	0.244	0.384	0.0502	1.15	0.0600	0.0637	0.0459
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.0013 J	< 0.0050 U	0.0014 J	< 0.0050 U	0.0011 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	8.67	5.75	8.59	14.8	13.0	4.94	28.6	5.92 J	5.79 J	4.73 J
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0386	0.0041 J	0.0435	0.0035 J	0.0355	< 0.0150 U	0.0433	< 0.0150 U	0.0029 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0780	< 0.0150 U	0.0772	0.0248	0.131	0.0060 J	0.189	0.0062 J	0.0139 J	< 0.0150 U
Magnesium - Total	mg/l	5.24	2.44 J	5.24 J	2.42	5.43	2.07	8.40	2.34 J	2.37 J	1.98 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.000088 J	< 0.00020 U	0.000081 J	< 0.00020 U	0.00038	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0361	0.0050 J	0.0340	0.0076 J	0.0370	0.0022 J	0.0652	0.0029 J	0.0040 J	0.0030 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0512	0.0054 J	0.0570 J	0.0078	0.0498	0.0033 J	0.109	0.0031 J	0.0051	0.0035 J
Other											
Hardness (as CaCO3)	mg/l	43.2	24.4	43.0	46.9	54.7	20.9	106	24.4	24.2	20.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.24 J	< 0.051 U	0.032 J	0.015 J	0.021 J	0.013 J	0.019 J	0.014 J	0.042 J	0.012 J
2-Methylnaphthalene - Total	ug/l	0.29 J	< 0.051 U	0.034 J	0.014 J	0.020 J	0.011 J	0.023 J	0.012 J	0.023 J	< 0.053 U
Acenaphthene - Total	ug/l	< 1.2 UJ	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.057 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 1.2 UJ	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.057 U	< 0.053 U
Anthracene - Total	ug/l	0.25 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	0.012 J	< 0.051 UJ	< 0.052 U	< 0.057 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	0.50 J	< 0.051 U	0.018 J	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	0.022 J	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	0.49 J	< 0.051 U	0.019 J	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	0.031 J	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	0.76 J	< 0.051 U	0.043 J	0.016 J	0.016 J	< 0.051 U	< 0.051 UJ	0.015 J	0.057 J	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	0.32 J	< 0.051 U	0.024 J	0.016 J	0.011 J	< 0.051 U	< 0.051 UJ	< 0.052 U	0.035 J	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	0.51 J	< 0.051 U	0.015 J	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	0.017 J	< 0.053 U
Chrysene - Total	ug/l	0.57 J	< 0.051 U	0.040 J	0.018 J	0.015 J	< 0.051 U	< 0.051 UJ	0.012 J	0.044 J	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	0.26 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.057 U	< 0.053 U
Fluoranthene - Total	ug/l	0.60 J	< 0.051 U	0.032 J	0.015 J	0.015 J	< 0.051 U	< 0.051 UJ	0.016 J	0.053 J	< 0.053 U
Fluorene - Total	ug/l	< 1.2 UJ	< 0.051 U	0.016 J	< 0.051 U	< 0.053 U	0.011 J	0.011 J	< 0.052 U	0.013 J	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.32 J	< 0.051 U	0.017 J	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	0.026 J	< 0.053 U
Naphthalene - Total	ug/l	< 1.2 UJ	0.032 J	< 0.052 U	0.043 J	< 0.053 U	< 0.051 U	< 0.051 UJ	0.10	0.067	0.15
Phenanthrene - Total	ug/l	< 1.2 UJ	< 0.051 U	0.032 J	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ	< 0.052 U	0.042 J	< 0.053 U
Pyrene - Total	ug/l	0.65 J	< 0.051 U	0.034 J	0.018 J	0.015 J	< 0.051 U	< 0.051 UJ	0.016 J	0.065	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		7/8/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/12/2013	7/12/2013	7/13/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-004(0.5-1.0)070813	WS-004(SURFACE)070913	WS-004(0.5-1.0)070913	WS-004(SURFACE)071013	WS-004(0.5-1.0)071013	WS-004(SURFACE)071113	WS-004(0.5-1.0)071113	WS-004(SURFACE)071213	WS-004(0.5-1.0)071213	WS-004(SURFACE)071313
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	1.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.0 J	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	8.7 J	< 5.0 U	3.0 J	5.5	6.6	3.2 J	7.3	< 5.0 U	< 5.0 U	3.5 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	20	0.2 J	2.0	19	15	0.9	25	2.0	2.1	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/13/2013	7/14/2013	7/14/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/7/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-004(0.5-1.0)071313	WS-004(SURFACE)071413	WS-004(0.5-1.0)071413	RRS330SW5	RRS331SW5	RRS41SW5	RRS42SW5	RRS43SW5	RRS43SW5DUP	RRS44SW5	WS-005-04052013(SURFACE)	WS-005-04062013(SURFACE)	WS-005-04072013(SURFACE)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**													
FIELD														
Conductivity	uS/cm	72	72	72	NA	NA	NA	NA	NA	NA	NA	72.4	56	52
Dissolved Oxygen	mg/l	3.19	2.44	2.44	NA	NA	NA	NA	NA	NA	NA	10.25 *	9.03	7.24
pH	SU	7.5	6.17	6.17	NA	NA	NA	NA	NA	NA	NA	6	7.41	6.58
Temperature	deg C	28.57	26.41	26.41	NA	NA	NA	NA	NA	NA	NA	13.9	12.89	14.92
Turbidity	NTU	62	103	103	NA	NA	NA	NA	NA	NA	NA	12.3	5.3	8.7
Metals														
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0108 J	0.0092 J	0.0148 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	NA	< 0.0100 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0813	0.0581	0.212	0.0216	0.0334	0.017	NA	NA	NA	0.017	0.0586	0.0146	0.0152
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.26 J	5.65 J	8.05 J	NA	NA	NA	NA	NA	NA	NA	4.86	3.05	3.12
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0058 J	< 0.0150 U	0.0258	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	< 0.0050 U	0.0031 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0179	< 0.0150 U	0.0865	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	< 0.0050 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.47 J	2.38 J	4.15 J	NA	NA	NA	NA	NA	NA	NA	2.08	1.47	1.56
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0062 J	0.0031 J	0.0229	NA	NA	NA	NA	NA	NA	< 0.0050 U	0.0027 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	< 0.0150 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0070 U	< 0.0070 U	< 0.0070 U	NA	NA	NA	< 0.0070 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0094	0.0035 J	0.0321	NA	NA	NA	NA	NA	NA	< 0.0100 U	0.0023 J	< 0.0050 U	< 0.0050 U
Other														
Hardness (as CaCO3)	mg/l	23.3	23.9	37.2	NA	NA	NA	NA	NA	NA	NA	20.7	13.7	14.2
PAHs-SIM														
1-Methylnaphthalene - Total	ug/l	0.014 J	< 0.053 U	0.039 J	NA	NA	NA	NA	NA	NA	NA	< 0.051 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	0.015 J	< 0.053 U	0.048 J	NA	NA	NA	NA	NA	NA	NA	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.053 U	0.019 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	0.013 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	0.015 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	0.048 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	0.075	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	0.14	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	0.052 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	0.044 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.053 U	< 0.053 U	0.17	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	0.014 J	< 0.053 U	0.40	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.053 U	< 0.053 U	0.041 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	0.049 J	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	0.12	< 0.053 U	< 0.052 U	< 0.57 U	< 0.55 U	< 0.50 U	< 0.57 U	< 0.54 U	< 0.61 U	< 0.63 U	< 0.051 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.053 U	0.29	< 0.57 U	< 0.55 U	< 0.50 U	< 0.57 U	< 0.54 U	< 0.61 U	< 0.63 U	< 0.051 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	0.012 J	< 0.053 U	0.25	< 0.11 U	< 0.11 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.051 U	< 0.052 U	< 0.052 U
TPH														
Diesel C10-C28	ug/L	NA	NA	NA	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	< 200 U	< 200 U	< 200 UJ	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	< 500 U	< 500 U	< 500 U	NA	NA	NA	NA	NA	NA	NA
VOCs														
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/13/2013	7/14/2013	7/14/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/7/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-004(0.5-1.0)071313	WS-004(SURFACE)071413	WS-004(0.5-1.0)071413	RRS330SW5	RRS331SW5	RRS41SW5	RRS42SW5	RRS43SW5	RRS43SW5DUP	RRS44SW5	WS-005-04052013(SURFACE)	WS-005-04062013(SURFACE)	WS-005-04072013(SURFACE)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**													
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	6.1	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	17	12	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	8.7	2.3	8.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		4/8/2013	4/9/2013	4/10/2013	4/11/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013	4/15/2013	4/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 FT	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)040813	WS-005(SURFACE)040913	WS-005(SURFACE)041013	WS-005(SURFACE)041113	WS-005(SURFACE)041213	WS-005(SURFACE)041313	WS-DUP5-041313	WS-005(SURFACE)041413	WS-005(SURFACE)041513	WS-005(SURFACE)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	52	53	53	51	53	52	NA	58	83	72
Dissolved Oxygen	mg/l	5.05	6.17	6.1	5.09	5.4	5.99	NA	6.23	9.17	6.13
pH	SU	6.42	6.55	6.54	6.76	6.77	7.06	NA	6.6	6.4	6.45
Temperature	deg C	15.81	18.68	20.39	16.95	16.64	16.28	NA	18.53	19.09	20.68
Turbidity	NTU	5	11.3	8	8.9	6.6	11.5	NA	4.2	1.9	9.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0150	0.0180	0.0149	0.0214	0.0174	0.0161	0.0172	0.0159	0.0183	0.0150
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.16	3.34	3.27	3.50	3.34	3.32	3.31	3.44	3.79	3.44
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.53	1.60	1.54	1.67 J	1.54	1.54	1.55	1.59 J	1.77	1.62
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0019 J	< 0.0100 UB	< 0.0100 U	0.0014 J	0.0012 J	0.0012 J	0.0013 J	0.0019 J	0.0021 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0017 J	< 0.0050 U	0.0019 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	14.2	14.9	14.5	15.6	14.7	14.6	14.6	15.1	16.8	15.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	2.6 J	NA	< 5.0 U	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		4/8/2013	4/9/2013	4/10/2013	4/11/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013	4/15/2013	4/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 FT	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)040813	WS-005(SURFACE)040913	WS-005(SURFACE)041013	WS-005(SURFACE)041113	WS-005(SURFACE)041213	WS-005(SURFACE)041313	WS-DUP5-041313	WS-005(SURFACE)041413	WS-005(SURFACE)041513	WS-005(SURFACE)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/19/2013	4/20/2013	4/21/2013	4/22/2013	4/23/2013	4/24/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-DUP07-041613	WS-005(SURFACE)041713	WS-DUP08-041713	WS-005(SURFACE)041813	WS-005(SURFACE)041913	WS-005(SURFACE)042013	WS-005(SURFACE)042113	WS-005(SURFACE)042213	WS-005(SURFACE)042313	WS-005(SURFACE)042413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	59	NA	550	52	53	53	176	181	177
Dissolved Oxygen	mg/l	NA	3.48	NA	3.75	5.69	5.6	5.6	9.24	5.41	7.11
pH	SU	NA	6.14	NA	6.35	6.48	6.22	7.14	6.01	6.54	6.26
Temperature	deg C	NA	23.21	NA	23.42	19.6	18.76	18.74	22.6	20.91	19.17
Turbidity	NTU	NA	12	NA	49.9	22	5.3	0.2	19.3	22.3	31.5
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0150	0.0163	0.0167	0.0242	0.0174	0.0168 J	0.0161	0.0150	0.0230	0.0176
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.40	3.90	3.91	3.57	3.23	3.14 J	3.26	3.24	3.43 J	3.21
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0016 J	< 0.0150 U	< 0.0150 U	0.0013 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.61	1.78	1.78	1.70	1.58	1.50	1.65	1.56	1.63	1.56
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0031 J	0.0018 J	< 0.0100 U	< 0.0100 U	0.0015 J	0.0022 J	< 0.0100 U	< 0.0100 U	0.0021 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0018 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	15.1	17.1	17.1	15.9	14.6	14.0	14.9	14.5	15.3	14.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	0.035 J	0.033 J	< 0.054 U	< 0.052 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.052 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.054 U	0.011 J	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	NA	NA	NA	NA	NA	NA	< 5.0 U	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/19/2013	4/20/2013	4/21/2013	4/22/2013	4/23/2013	4/24/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-DUP07-041613	WS-005(SURFACE)041713	WS-DUP08-041713	WS-005(SURFACE)041813	WS-005(SURFACE)041913	WS-005(SURFACE)042013	WS-005(SURFACE)042113	WS-005(SURFACE)042213	WS-005(SURFACE)042313	WS-005(SURFACE)042413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		4/25/2013	4/26/2013	4/27/2013	4/28/2013	4/30/2013	5/1/2013	5/2/2013	5/3/2013	5/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)042513	WS-005(SURFACE)042613	WS-005(SURFACE)042713	WS-005(SURFACE)042813	WS-005(SURFACE)043013	WS-005(SURFACE)050113	WS-005(SURFACE)050213	WS-005(SURFACE)050313	WS-005(SURFACE)050413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	186	186	189	184	63	57	55	53	56
Dissolved Oxygen	mg/l	6.9	5.57	6.15	5.65	5.28	6.93	6.6	5.49	5.55
pH	SU	6.65	6.28	6.32	6.53	7.63	7.21	7.87	7.22	7.18
Temperature	deg C	19.77	19.81	18.56	18.4	23.78	23.07	23.25	18.96	16.19
Turbidity	NTU	7.2	24.9	0.4	0	3.5	6.1	1.5	53.4	17.8
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0164	0.0164	0.0173	0.0178	0.0169	0.0188	0.0191	0.0223	0.0181
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.14	2.93	3.41	3.22	3.49	3.51	3.47	3.41	3.37
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.55	1.36	1.62	1.59	1.63	1.69	1.66 J	1.67	1.67
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0019 J	0.0012 J	0.0013 J	< 0.0100 U	0.0014 J	0.0013 J	0.0015 J	0.0020 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0015 J	< 0.0050 U	0.0013 J	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	14.2	12.9	15.2	14.6	15.4	15.7	15.5	15.4	15.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.052 UJ	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		4/25/2013	4/26/2013	4/27/2013	4/28/2013	4/30/2013	5/1/2013	5/2/2013	5/3/2013	5/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)042513	WS-005(SURFACE)042613	WS-005(SURFACE)042713	WS-005(SURFACE)042813	WS-005(SURFACE)043013	WS-005(SURFACE)050113	WS-005(SURFACE)050213	WS-005(SURFACE)050313	WS-005(SURFACE)050413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		5/5/2013	5/7/2013	5/8/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/14/2013	5/15/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)050513	WS-005(SURFACE)050713	WS-005(SURFACE)050813	WS-005(SURFACE)050913	WS-005(SURFACE)051013	WS-005(SURFACE)051113	WS-005(SURFACE)051213	WS-005(SURFACE)051413	WS-005(SURFACE)051513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	55	55	62	61	62	62	63	62	69
Dissolved Oxygen	mg/l	7.65	13.99 *	6.46	7.06	6.91	7.42	6.33	7.11	7.58
pH	SU	7.46	7.2	6.54	6.62	6.82	7.17	6.29	6.8	7.23
Temperature	deg C	16.53	22.13	22.08	22.12	23.41	21.96	21.78	23.66	24.74
Turbidity	NTU	35.2	5.1	8.5	4.2	9	92	41.7	28.3	32
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0214	0.0194	0.0158	0.0115	0.0140	0.0214	0.0230	0.0158	0.0167
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.34	3.65	3.61	3.52	3.73	3.80	3.77	3.74	3.93
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0015 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.62	1.66	1.72 J	1.71	1.76	1.78	1.78	1.81 J	1.76
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0015 J	0.0017 J	0.0020 J	0.0013 J	0.0012 J	0.0016 J	0.0020 J	0.0012 J	0.0020 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0015 J	0.0014 J	< 0.0050 U	0.0013 J	< 0.0050 U	< 0.0050 U	0.0021 J	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	15.0	16.0	16.1	15.8	16.5	16.8	16.7	16.8	17.1
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.071 U	0.019 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.071 U	0.012 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.013 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.043 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.071 U	0.016 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.071 U	0.016 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.022 J
Naphthalene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	0.11	0.11	< 0.051 U	< 0.12 UB
Phenanthrene - Total	ug/l	< 0.071 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.071 U	0.014 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		5/5/2013	5/7/2013	5/8/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/14/2013	5/15/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)050513	WS-005(SURFACE)050713	WS-005(SURFACE)050813	WS-005(SURFACE)050913	WS-005(SURFACE)051013	WS-005(SURFACE)051113	WS-005(SURFACE)051213	WS-005(SURFACE)051413	WS-005(SURFACE)051513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		5/16/2013	5/17/2013	5/18/2013	5/19/2013	5/21/2013	5/22/2013	5/23/2013	5/24/2013	5/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)051613	WS-005(SURFACE)051713	WS-005(SURFACE)051813	WS-005(SURFACE)051913	WS-005(SURFACE)052113	WS-005(SURFACE)052213	WS-005(SURFACE)052313	WS-005(SURFACE)052413	WS-005(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	64	69	67	65	63	62	62	62	70
Dissolved Oxygen	mg/l	5.53	6.53	4.4	5.95	4.62	5.62	5.31	5.64	5.93
pH	SU	6.29	6.76	6.31	6.32	6.44	6.9	7.13	6.55	6.86
Temperature	deg C	22.72	24.2	25.49	25.99	25.27	23.48	24.73	24.03	23.56
Turbidity	NTU	45.8	26.7	26.5	22.2	51.2	29.4	26	122	67.1
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0165	0.0180	0.0184	0.0142	0.0160	0.0153	0.0141 J	0.0402	0.0237
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.99	4.46	4.11	4.02	3.95	3.83	3.87	4.24	4.37
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J	0.0012 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0069 J	0.0059 J
Magnesium - Total	mg/l	1.80	2.00	1.89	1.84	1.84	1.75 J	1.80	2.00 J	1.94
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0012 J	< 0.0100 U	0.0016 J	0.0020 J	0.0017 J	0.0011 J	0.0012 J	0.0030 J	0.0029 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0012 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 U	0.0040 J	0.0017 J
Other										
Hardness (as CaCO3)	mg/l	17.4	19.4	18.0	17.6	17.4	16.8	17.1	18.8	18.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	0.013 J	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	0.022 J	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	0.060	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	0.053	0.041 J	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	0.038 J	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	0.039 J	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		5/16/2013	5/17/2013	5/18/2013	5/19/2013	5/21/2013	5/22/2013	5/23/2013	5/24/2013	5/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)051613	WS-005(SURFACE)051713	WS-005(SURFACE)051813	WS-005(SURFACE)051913	WS-005(SURFACE)052113	WS-005(SURFACE)052213	WS-005(SURFACE)052313	WS-005(SURFACE)052413	WS-005(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		5/26/2013	5/27/2013	5/28/2013	5/30/2013	5/31/2013	6/1/2013	6/2/2013	6/4/2013	6/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)052613	WS-005(SURFACE)052713	WS-005(SURFACE)052813	WS-005(SURFACE)053013	WS-005(SURFACE)053113	WS-005(SURFACE)060113	WS-005(SURFACE)060213	WS-005(SURFACE)060413	WS-005(SURFACE)060513
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	68	69	75	68	61	64	75	73	65
Dissolved Oxygen	mg/l	5.98	6.37	4.99	5.47	4.01	4.16	8.5	7.05	6.1
pH	SU	7.16	7.01	7.01	7.15	6.78	6.94	7.21	7.38	9.21
Temperature	deg C	25.14	27.59	26.98	28.02	26.48	25.06	29.86	27.65	27.59
Turbidity	NTU	52.9	108	64.6	103	81.9	73.1	43.8	97.3	71.2
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0146	0.0143	0.0160	0.0212	0.0188	0.0175	0.0146	0.0175	0.0149
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.33	4.06	4.12	4.28	3.85	3.80	4.08	4.63	4.64
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.90	1.86	1.86	1.94 J	1.77	1.73	1.79	1.93	2.02
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0013 J	0.0019 J	0.0012 J	0.0013 J	0.0014 J	0.0013 J	< 0.0100 U	0.0012 J	0.0022 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	0.0013 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	18.7	17.8	17.9	18.7	16.9	16.6	17.5	19.5	19.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	0.044 J	0.045 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		5/26/2013	5/27/2013	5/28/2013	5/30/2013	5/31/2013	6/1/2013	6/2/2013	6/4/2013	6/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)052613	WS-005(SURFACE)052713	WS-005(SURFACE)052813	WS-005(SURFACE)053013	WS-005(SURFACE)053113	WS-005(SURFACE)060113	WS-005(SURFACE)060213	WS-005(SURFACE)060413	WS-005(SURFACE)060513
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		6/6/2013	6/7/2013	6/8/2013	6/9/2013	6/10/2013	6/11/2013	6/12/2013	6/13/2013	6/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)060613	WS-005(SURFACE)060713	WS-005(SURFACE)060813	WS-005(SURFACE)060913	WS-005(SURFACE)061013	WS-005(SURFACE)061113	WS-005(SURFACE)061213	WS-005(SURFACE)061313	WS-005(SURFACE)061413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	81	67	71	81	86	86	83	80	68
Dissolved Oxygen	mg/l	7.38	6.03	6.2	5.49	3.39	3.74	4.11	8.28	4.67
pH	SU	6.5	6.65	8.73	7.51	7.02	6.85	6.79	7.72	7.28
Temperature	deg C	26.32	26.6	27.16	26.41	25.48	25.31	26.95	29	28.62
Turbidity	NTU	65.3	51	12.2	13.2	13.1	16.8	13.1	11.6	14.7
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0147	0.0201	0.0118	0.0140	0.0151	0.0144	0.0143	0.0210	0.0180
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	0.00039 J
Calcium - Total	mg/l	4.31	4.47	4.13	4.45	4.65	4.61	4.79	4.98	4.95
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.92	2.04	1.88	2.06	2.06	2.02	2.20	2.08	2.15
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 UB	< 0.00020 U	0.00011 J	< 0.00020 U	< 0.00020 UJ	0.000074 J	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0012 J	0.0015 J	0.0017 J	0.0014 J	0.0021 J	0.0016 J	0.0012 J	0.0015 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	0.0020 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	18.7	19.6	18.1	19.6	20.1	19.8	21.0	21.0	21.2
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	0.012 J	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	0.15	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		6/6/2013	6/7/2013	6/8/2013	6/9/2013	6/10/2013	6/11/2013	6/12/2013	6/13/2013	6/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)060613	WS-005(SURFACE)060713	WS-005(SURFACE)060813	WS-005(SURFACE)060913	WS-005(SURFACE)061013	WS-005(SURFACE)061113	WS-005(SURFACE)061213	WS-005(SURFACE)061313	WS-005(SURFACE)061413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		6/15/2013	6/16/2013	6/17/2013	6/18/2013	6/20/2013	6/21/2013	6/22/2013	6/23/2013	6/24/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)061513	WS-005(SURFACE)061613	WS-005(SURFACE)061713	WS-005(SURFACE)061813	WS-005(SURFACE)062013	WS-005(SURFACE)062113	WS-005(SURFACE)062213	WS-005(SURFACE)062313	WS-005(SURFACE)062413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	72	72	72	72	74	76	75	77	70
Dissolved Oxygen	mg/l	3.95	3.69	3.65	4.02	5.78	4.32	6.66	8.71	5.6
pH	SU	6.89	6.84	6.89	6.88	7.84	6.56	7.12	8.02	6.63
Temperature	deg C	29.15	28.61	29.15	27.89	29.45	28.96	30.27	31.52	30.22
Turbidity	NTU	12.2	16.1	11.8	32.6	13.9	19.7	25.1	16.1	11.1
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0347	0.0180	0.0168	0.0232	0.0136	0.0230	0.0218	0.0092	0.0132
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.04	4.82	5.32	6.23	5.03	5.57	5.46	5.05	5.21
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0014 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.17	2.21	2.27	2.25	2.25	2.28	2.35	2.14	2.31
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0016 J	0.0014 J	0.0012 J	0.0011 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0016 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	21.5	21.1	22.6	24.8	21.8	23.3	23.3	21.4	22.5
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		6/15/2013	6/16/2013	6/17/2013	6/18/2013	6/20/2013	6/21/2013	6/22/2013	6/23/2013	6/24/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)061513	WS-005(SURFACE)061613	WS-005(SURFACE)061713	WS-005(SURFACE)061813	WS-005(SURFACE)062013	WS-005(SURFACE)062113	WS-005(SURFACE)062213	WS-005(SURFACE)062313	WS-005(SURFACE)062413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		6/25/2013	6/26/2013	6/27/2013	6/28/2013	6/29/2013	6/30/2013	7/2/2013	7/3/2013	7/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)062513	WS-005(SURFACE)062613	WS-005(SURFACE)062713	WS-005(SURFACE)062813	WS-005(SURFACE)062913	WS-005(SURFACE)063013	WS-005(SURFACE)070213	WS-005(SURFACE)070313	WS-005(SURFACE)070413
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	75	68	78	77	78	78	68	67	71
Dissolved Oxygen	mg/l	5.49	6.4	6.58	4.91	5.64	4.72	6.78	6.1	5.93
pH	SU	7.03	7.62	8.16	7.18	7.78	7.13	7.49	7.52	7.75
Temperature	deg C	31.48	31.42	31.45	31.55	30.65	28.71	27.36	27.14	29.22
Turbidity	NTU	12.2	20	34.1	21.2	18.2	44.4	23.5	24.4	56.8
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0132	0.0140	0.0147	0.0132	0.0174	0.0485	0.0168	0.0243	0.0541
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.22	5.10	5.28	5.02	5.42	5.92	5.21 J	5.61	6.58
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0051 J
Magnesium - Total	mg/l	2.27	2.29	2.36	2.21 J	2.42 J	2.67 J	2.37	2.51	2.73
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0018 J	< 0.0100 U	0.0017 J	< 0.0100 U	0.0027 J	< 0.0100 U	< 0.0100 U	0.0027 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0025 J	< 0.0050 U	< 0.0050 U	0.0026 J	< 0.0050 U	< 0.0050 U	0.0036 J
Other										
Hardness (as CaCO3)	mg/l	22.4	22.1	22.9	21.6	23.5	25.8	22.8	24.4	27.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	0.16
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 UB	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	0.074
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	0.10
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		6/25/2013	6/26/2013	6/27/2013	6/28/2013	6/29/2013	6/30/2013	7/2/2013	7/3/2013	7/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)062513	WS-005(SURFACE)062613	WS-005(SURFACE)062713	WS-005(SURFACE)062813	WS-005(SURFACE)062913	WS-005(SURFACE)063013	WS-005(SURFACE)070213	WS-005(SURFACE)070313	WS-005(SURFACE)070413
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	3.6 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.5 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/5/2013	7/6/2013	7/7/2013	7/8/2013	7/9/2013	7/10/2013	7/11/2013	7/12/2013	7/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)070513	WS-005(SURFACE)070613	WS-005(SURFACE)070713	WS-005(SURFACE)070813	WS-005(SURFACE)070913	WS-005(SURFACE)071013	WS-005(SURFACE)071113	WS-005(SURFACE)071213	WS-005(SURFACE)071313
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	74	75	71	70	71	74	76	71	73
Dissolved Oxygen	mg/l	3.98	3.3	3.65	5.38	5.65	3.75	3.21	3.79	8.71
pH	SU	6.75	6.62	6.86	6.55	6.65	7	6.88	6.87	7.09
Temperature	deg C	27.72	28.53	29.19	30.6	31.49	31.26	29.47	24.02	29.71
Turbidity	NTU	23.5	22.4	20	13.9	54.5	175	25.4	31.8	21
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0375	0.0225	0.0398	0.0270	0.0201	0.0835	0.0353	0.0379	0.0184
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.73	5.68 J	6.52 J	5.84	5.99	7.60	6.34	6.26 J	5.91 J
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0032 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0058 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.70	2.50 J	2.68 J	2.57	2.67 J	2.97	2.72	2.77 J	2.55 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0025 J	< 0.0100 U	0.0018 J	0.0015 J	0.0024 J	0.0024 J	< 0.0100 U	0.0016 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0046 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	27.9	24.5	27.3	25.2	26.0	31.2	27.0	27.0	25.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.12	< 0.053 U	< 0.051 U	0.074	0.17	0.10	0.080
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	0.023 J	0.011 J	< 0.053 U	< 0.051 U	0.073	0.016 J	0.036 J	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/5/2013	7/6/2013	7/7/2013	7/8/2013	7/9/2013	7/10/2013	7/11/2013	7/12/2013	7/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)070513	WS-005(SURFACE)070613	WS-005(SURFACE)070713	WS-005(SURFACE)070813	WS-005(SURFACE)070913	WS-005(SURFACE)071013	WS-005(SURFACE)071113	WS-005(SURFACE)071213	WS-005(SURFACE)071313
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/14/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)071413	WS-005(SURFACE)071513	WS-005(SURFACE)071613	WS-005(SURFACE)071713	WS-005(SURFACE)071813	WS-005(SURFACE)071913	WS-005(SURFACE)072013	WS-005(SURFACE)072113	WS-005(SURFACE)072213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	73	84	87	85	84	96	88	85	81
Dissolved Oxygen	mg/l	6.45	9.16	9.38	8.53	7.51	5.55	5.52	5.57	4.29
pH	SU	7.45	8.04	8.54	8.01	9.18	7.14	7.44	7.38	7.15
Temperature	deg C	28.83	31.03	32.32	32.44	34.94	28.49	30.14	29.98	28.79
Turbidity	NTU	32	18.7	20.5	22.8	52.8	19.4	20	15.2	13
Metals										
Arsenic - Dissolved	mg/l	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	< 0.0060 UB	< 0.0086 UB	0.0079	0.0068	< 0.0090 UB	< 0.0102 UB	0.0148	0.0250
Barium - Total	mg/L	0.0495	< 0.0197 UB	0.0250	0.0320	0.0435	0.0332	0.0299	0.0311	0.0377
Cadmium - Dissolved	mg/l	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.18 J	5.55	6.33	6.03	6.31	6.22	5.87 J	6.33 J	6.03
Chromium - Dissolved	mg/l	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.67 J	2.45	2.68	2.63	2.72 J	2.74	2.66 J	2.71 J	2.66 J
Mercury - Dissolved	mg/l	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0028 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.4	23.9	26.9	25.9	27.0	26.8	25.6	26.9	26.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.053 UB	< 0.052 UB	< 0.11 UB	< 0.051 UB	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	0.036 J	0.030 J	< 0.051 U	< 0.050 U	< 0.051 U	0.018 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	< 5.0 U	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/14/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)071413	WS-005(SURFACE)071513	WS-005(SURFACE)071613	WS-005(SURFACE)071713	WS-005(SURFACE)071813	WS-005(SURFACE)071913	WS-005(SURFACE)072013	WS-005(SURFACE)072113	WS-005(SURFACE)072213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	4.1 J	< 5.0 U	4.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/23/2013	7/24/2013	7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)072313	WS-005(SURFACE)072413	WS-005(SURFACE)072513	WS-005(SURFACE)072613	WS-005(SURFACE)072713	WS-005(SURFACE)072813	WS-005(SURFACE)072913	WS-005(SURFACE)073013	WS-005(SURFACE)073113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	80	78	78	77	75	75	76	76	80
Dissolved Oxygen	mg/l	6.7	5.34	6.85	5.23	5.58	7.04	7.35	2.86	7.5
pH	SU	7.91	6.78	7.42	7.33	7.43	7.77	7.83	7.24	7.35
Temperature	deg C	29.7	26.37	28.08	27.05	26.11	27.21	27.59	27.46	29.49
Turbidity	NTU	29.4	18	19	17.2	22.2	22.1	16.1	22.1	102
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0113	0.0232	< 0.0173 UB	0.0161	0.0160	< 0.0129 UB	< 0.0096 UB	< 0.0208 UB	< 0.0176 UB
Barium - Total	mg/L	0.0290	0.0437	0.0328	0.0296	< 0.0292 UB	0.0397	< 0.0243 UB	0.0454	0.0546
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.80	5.81 J	5.91	5.85	5.59	6.14 J	5.72	6.48	6.14
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.51	2.53 J	2.64	2.61	2.52	2.69 J	2.57	2.89 J	2.64
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0023 J	< 0.0100 U	< 0.0100 U	0.0016 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0023 J	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	24.8	25.0	25.6	25.4	24.4	26.4	24.9	28.1	26.2
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	0.26	< 0.053 U	< 0.050 U	< 0.050 U	< 0.056 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.4 J	< 5.0 U	< 5.0 U	2.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		7/23/2013	7/24/2013	7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)072313	WS-005(SURFACE)072413	WS-005(SURFACE)072513	WS-005(SURFACE)072613	WS-005(SURFACE)072713	WS-005(SURFACE)072813	WS-005(SURFACE)072913	WS-005(SURFACE)073013	WS-005(SURFACE)073113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	21
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.5 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/1/2013	8/2/2013	8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)080113	WS-005(SURFACE)080213	WS-005(SURFACE)080313	WS-005(SURFACE)080413	WS-005(SURFACE)080513	WS-005(SURFACE)080613	WS-005(SURFACE)080713	WS-005(SURFACE)080813	WS-005(SURFACE)080913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	78	82	79	81	82	83	87	86	88
Dissolved Oxygen	mg/l	6.05	5.4	8.47	6.82	3.64	3.78	3.94	4.15	4.63
pH	SU	7.04	7.35	8.32	8.01	7.26	7.26	7.36	7.23	7.19
Temperature	deg C	27.39	28.55	30.05	29.3	29.32	29.26	30.97	30.1	29.51
Turbidity	NTU	20.8	18.8	19.1	24.2	45.7	20.4	14.2	130	19.7
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UB	0.0085 J	< 0.0200 U	0.0085 J	< 0.0200 U	0.0077 J	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0136 UB	0.0112	< 0.0051 UB	0.0080	0.0185	0.0186	0.0133	0.0196	0.0151
Barium - Total	mg/L	0.0265	0.0239	0.0212	0.0365	0.0382	0.0545	0.0277	0.0739	0.0332
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.66	6.21	5.58	6.19	6.43	6.35	6.19	7.21	6.18
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.54	2.60	2.48	2.72	2.71	2.65	2.62	2.89	2.72
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0017 J	0.0016 J	< 0.0100 U	< 0.0100 U	0.0024 J	0.0018 J	< 0.0100 U	0.0018 J	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U	0.0023 J	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	24.6	26.2	24.1	26.6	27.2	26.8	26.2	29.9	26.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	0.015 J	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/1/2013	8/2/2013	8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)080113	WS-005(SURFACE)080213	WS-005(SURFACE)080313	WS-005(SURFACE)080413	WS-005(SURFACE)080513	WS-005(SURFACE)080613	WS-005(SURFACE)080713	WS-005(SURFACE)080813	WS-005(SURFACE)080913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/10/2013	8/11/2013	8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)081013	WS-005(SURFACE)081113	WS-005(SURFACE)081213	WS-005(SURFACE)081313	WS-005(SURFACE)081413	WS-005(SURFACE)081513	WS-005(SURFACE)081613	WS-005(SURFACE)081713	WS-005(SURFACE)081813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	87	84	62	96	82	79	81	75	78
Dissolved Oxygen	mg/l	5.81	4.7	4.08	4.67	5.45	7.61	6.38	5.13	5.89
pH	SU	7.5	7.38	7.25	6.68	7.29	7.88	7.99	6.97	7.06
Temperature	deg C	29.45	28.95	29.87	28.96	26.73	26.42	26.5	23.93	25.75
Turbidity	NTU	51.4	32.9	15.7	16.3	44.1	28.6	31.4	47.9	14
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0133	0.0139	0.0135	0.0150	0.0172	0.0116	0.0149	0.0194	0.0126
Barium - Total	mg/L	0.0346	0.0297	0.0251	0.0456	0.0394	0.0397	0.0297	0.0377	0.0264
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.32	6.54	6.22	7.45	6.18	6.17	6.31	6.10	5.83
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.80	2.78	2.75	2.89	2.78	2.73	2.80	2.67	2.59
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0019 J	< 0.0100 U	< 0.0100 U	0.0021 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0025 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	27.3	27.8	26.9	30.5	26.9	26.6	27.3	26.2	25.2
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/10/2013	8/11/2013	8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)081013	WS-005(SURFACE)081113	WS-005(SURFACE)081213	WS-005(SURFACE)081313	WS-005(SURFACE)081413	WS-005(SURFACE)081513	WS-005(SURFACE)081613	WS-005(SURFACE)081713	WS-005(SURFACE)081813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.2 J	< 5.0 U	< 5.0 U	4.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/19/2013	8/20/2013	8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)081913	WS-005(SURFACE)082013	WS-005(SURFACE)082113	WS-005(SURFACE)082213	WS-005(SURFACE)082313	WS-005(SURFACE)082413	WS-005(SURFACE)082513	WS-005(SURFACE)082613	WS-005(SURFACE)082713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	80	89	81	85	88	99	117	101	99
Dissolved Oxygen	mg/l	4.84	3.46	4.72	4.93	5.3	4.4	6.3	5.72	NA
pH	SU	7.43	7.87	7.76	7.47	6.29	7.61	NA	NA	NA
Temperature	deg C	26.25	28.69	28.82	29.62	32.94	29.95	29.82	30.77	29.33
Turbidity	NTU	33.2	16.6	29.5	15.2	19.6	NA	NA	NA	NA
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0092 J	0.0087 J	0.0098 J	0.0087 J	0.0083 J	0.0093 J	0.0077 J	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0138 UB	0.0173	0.0206	0.0172	0.0104	0.0137	0.0067	0.010	0.0200
Barium - Total	mg/L	0.0503	0.0549	0.0958	0.0543	0.0513	0.0619	0.0725	0.0529	0.0679
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.67	6.57	7.12	7.50	7.71	7.57	7.77	6.67	7.98
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.85	2.83	2.94	2.86	2.80	2.88	3.06	2.80	2.96
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	0.0016 J	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	0.0017 J	0.0027 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U	0.0021 J	0.0021 J	< 0.0050 U	0.0024 J
Other										
Hardness (as CaCO3)	mg/l	28.4	28.1	29.9	30.5	30.8	30.8	32.0	28.2	32.1
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 UJ	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 UJ	< 0.051 U	< 0.054 UJ	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 UJ	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.057 U	< 0.051 U	< 0.052 U	1.5	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U	2.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/19/2013	8/20/2013	8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)081913	WS-005(SURFACE)082013	WS-005(SURFACE)082113	WS-005(SURFACE)082213	WS-005(SURFACE)082313	WS-005(SURFACE)082413	WS-005(SURFACE)082513	WS-005(SURFACE)082613	WS-005(SURFACE)082713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 UB	< 5.0 U	< 5.0 U	4.3 J	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	0.1 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/28/2013	8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)082813	DUP-WS-78-082813	WS-005(SURFACE)082913	WS-005(SURFACE)083013	WS-005(SURFACE)083113	WS-005(SURFACE)090113	WS-005(SURFACE)090213	WS-005(SURFACE)090313	WS-005(SURFACE)090413	WS-005(SURFACE)090513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	71	NA	73	71	70	73	77	72	76	66
Dissolved Oxygen	mg/l	6.07	NA	4.96	5.16	5.2	4.61	3.34	5.07	5.88	5.87
pH	SU	8.45	NA	8.13	8.55	8.41	8.1	8	8.5	8.98	9.42
Temperature	deg C	31.19	NA	29.92	31.02	30.98	30.5	29.86	29.23	29.06	30.09
Turbidity	NTU	20.2	NA	8.3	9.6	9.2	12.5	10.3	10.9	13.9	15.6
Metals											
Arsenic - Dissolved	mg/l	0.0072 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0108 J	0.0079 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	0.0081 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0126	0.0124	0.0161	0.0112	0.0186	0.0233	0.0332	0.0157	0.0137	0.0138
Barium - Total	mg/L	0.0432	0.0436	0.0430	0.0291	0.0373	0.0550	0.0817	0.0447	0.103	0.0394
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.22	7.09	9.50	6.68	7.31	8.43	7.39	7.44	8.08	7.35
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.88	2.88	2.84	2.93	2.99	3.00	3.07	3.06	3.21	3.10
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000070 J	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0018 J	0.0016 J	< 0.0100 U	< 0.0100 U	0.0020 J	< 0.0100 U	< 0.0100 U	0.0027 J	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.9	29.5	35.4	28.7	30.5	33.4	31.1	31.2	33.4	31.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	0.012 J	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		8/28/2013	8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)082813	DUP-WS-78-082813	WS-005(SURFACE)082913	WS-005(SURFACE)083013	WS-005(SURFACE)083113	WS-005(SURFACE)090113	WS-005(SURFACE)090213	WS-005(SURFACE)090313	WS-005(SURFACE)090413	WS-005(SURFACE)090513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	0.1 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		9/6/2013	9/7/2013	9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)090613	WS-005(SURFACE)090713	WS-005(SURFACE)090813	WS-005(SURFACE)090913	WS-005(SURFACE)091013	WS-005(SURFACE)091113	WS-005(SURFACE)091213	WS-005(SURFACE)091313	WS-005(SURFACE)091413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	75	77	76	77	78	76	76	75	76
Dissolved Oxygen	mg/l	5.3	3.9	4.32	4.5	4.01	4.23	5.05	4.12	5.34
pH	SU	8.86	8.23	8.15	8.06	7.76	7.82	8.02	7.84	8.3
Temperature	deg C	29.6	28.79	28.75	29.56	28.86	29.21	29.3	27.41	24.99
Turbidity	NTU	20	21.2	3.7	3.8	10.3	12.7	14	67.1	15.8
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J
Barium - Dissolved	mg/l	0.0126	0.0299	0.0444	0.0539	0.0305	< 0.0226 UB	0.0191	0.0239	0.0201
Barium - Total	mg/L	0.0423	0.0503	0.109	0.0979	0.0730	0.0421	0.0454	0.0604	0.0577
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.47	7.29	7.13	7.43	7.18	7.28	7.29	7.36	7.20
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.02	3.12	2.90	3.11	2.92	3.06	3.06	3.19	3.10
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0030 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	31.1	31.0	29.8	31.4	30.0	30.8	30.8	31.5	30.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 UJ	< 0.053 U
Fluorene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	3.3 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		9/6/2013	9/7/2013	9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)090613	WS-005(SURFACE)090713	WS-005(SURFACE)090813	WS-005(SURFACE)090913	WS-005(SURFACE)091013	WS-005(SURFACE)091113	WS-005(SURFACE)091213	WS-005(SURFACE)091313	WS-005(SURFACE)091413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UB	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		9/15/2013	9/16/2013	9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)091513	WS-005(SURFACE)091613	WS-005(SURFACE)091713	WS-005(SURFACE)091813	WS-005(SURFACE)091913	WS-005(SURFACE)092013	WS-005(SURFACE)092113	WS-005(SURFACE)092213	WS-005(SURFACE)092313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	74	73	77	74	63	74	68	73	75
Dissolved Oxygen	mg/l	5.57	5.2	2.81	3.02	4.49	4.13	4.01	5.77	5.32
pH	SU	8.17	8.74	8.84	8.3	8.37	8.17	7.82	7.97	9.02
Temperature	deg C	25.03	25.96	26.03	27.28	27.45	27.42	23.07	22.93	22.7
Turbidity	NTU	16.3	11.2	31.1	8.4	6.7	6.1	41.2	7.5	15.2
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0076 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0170 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U	0.0073 J
Barium - Dissolved	mg/l	0.0136	0.0179	0.0511	0.0292	0.0349	< 0.0420 UB	0.0301	0.0217	0.0273
Barium - Total	mg/L	0.0359	0.0414	0.284	0.0413	0.0718	0.0776	0.0453	0.0515	0.0575
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.86	7.34	13.5	6.84	6.99	6.95	7.01	7.03	7.10
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0032 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.03	3.11	4.07	2.85	3.05	2.98	3.04	3.04	3.08
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0027 J	< 0.0100 U	0.0039 J	< 0.0100 U	< 0.0100 U	0.0022 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0050 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	29.6	31.1	50.5	28.8	30.0	29.6	30.0	30.1	30.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 UB	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.061 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	3.3 J	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		9/15/2013	9/16/2013	9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)091513	WS-005(SURFACE)091613	WS-005(SURFACE)091713	WS-005(SURFACE)091813	WS-005(SURFACE)091913	WS-005(SURFACE)092013	WS-005(SURFACE)092113	WS-005(SURFACE)092213	WS-005(SURFACE)092313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	3.3 J	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		9/24/2013	9/25/2013	9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)092413	WS-005(SURFACE)092513	WS-005(SURFACE)092613	WS-005(SURFACE)092713	WS-005(SURFACE)092813	WS-005(SURFACE)092913	WS-005(SURFACE)093013	WS-005(SURFACE)100113	WS-005(SURFACE)100213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	75	73	74	76	71	69	71	70	73
Dissolved Oxygen	mg/l	6.01	3.57	2.56	3.57	5.91	3.02	2.99	3.01	3.38
pH	SU	9.48	7.86	8.27	8.21	8.31	7.68	7.91	7.85	7.81
Temperature	deg C	24.23	23.42	24	24.2	25.14	25.4	25.11	25.04	25.46
Turbidity	NTU	12.5	9.3	20.7	31.1	11.1	18.2	17	16.8	29.3
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0086 J	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0076 J	< 0.0200 U	< 0.0200 U	< 0.0200 UB
Barium - Dissolved	mg/l	0.0281	0.0281	0.0268	0.0339	0.0236	0.0319	< 0.0225 UB	0.0363	0.0367
Barium - Total	mg/L	0.0368	0.0533	0.0505	0.0553	0.0369	0.0504	0.0482	0.0452	0.0542
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.95	7.36	7.01	6.75	6.66	6.88	6.87	6.75	6.90
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.03	3.15	3.09	3.06	3.04	3.10	3.01	2.88	3.01
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0021 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	29.8	31.4	30.2	29.4	29.1	29.9	29.6	28.7	29.6
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Benzo(a)Anthracene - Total	ug/l	0.012 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Benzo(a)Pyrene - Total	ug/l	0.011 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Benzo(b)Fluoranthene - Total	ug/l	0.014 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	0.033 J	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
Pyrene - Total	ug/l	< 0.051 U	0.027 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.060 U	< 0.057 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		9/24/2013	9/25/2013	9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)092413	WS-005(SURFACE)092513	WS-005(SURFACE)092613	WS-005(SURFACE)092713	WS-005(SURFACE)092813	WS-005(SURFACE)092913	WS-005(SURFACE)093013	WS-005(SURFACE)100113	WS-005(SURFACE)100213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.4 J	< 5.0 U	< 5.0 U	3.1 J	3.5 J	3.1 J	< 5.0 U	< 5.0 U	0 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		10/3/2013	10/4/2013	10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)100313	WS-005(SURFACE)100413	WS-005(SURFACE)100513	WS-005(SURFACE)100613	WS-005(SURFACE)100713	WS-005(SURFACE)100813	WS-005(SURFACE)100913	WS-005(SURFACE)101013	WS-005(SURFACE)101113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	91	69	81	NA	NA	NA	83	86	85
Dissolved Oxygen	mg/l	2.39	4.02	3.11	NA	NA	NA	6.05	4.44	4.91
pH	SU	7.98	7.95	7.91	NA	NA	NA	7.84	7.06	7.99
Temperature	deg C	24.72	25.51	24.97	NA	NA	NA	20.14	19.27	20.86
Turbidity	NTU	14.9	47.2	17.9	NA	NA	NA	31.1	26.8	39
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U
Barium - Dissolved	mg/l	0.0237	0.0164	0.110	0.0211	0.0184	0.0270	0.0160	0.0199	0.0146
Barium - Total	mg/L	0.0359	0.0300	0.139	0.0407	0.0611	0.114	0.0294	0.0308	0.0257
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.54	6.23	18.3	6.35	6.91	7.22	6.00	6.00	5.59
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0030 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.00	2.88	6.62	2.97	2.97	3.09	2.81	2.75	2.65
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	0.0026 J	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0015 J	< 0.0100 U	0.0044 J	< 0.0100 U	0.0024 J	0.0021 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0046 J	< 0.0050 U	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	28.7	27.4	73.0	28.1	29.5	30.8	26.6	26.3	24.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	0.018 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	0.021 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	0.023 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	0.014 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	0.013 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	0.065	< 0.052 U	< 0.050 U	< 0.052 U	0.044 J	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.057 U	< 0.052 U	0.079	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		10/3/2013	10/4/2013	10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)100313	WS-005(SURFACE)100413	WS-005(SURFACE)100513	WS-005(SURFACE)100613	WS-005(SURFACE)100713	WS-005(SURFACE)100813	WS-005(SURFACE)100913	WS-005(SURFACE)101013	WS-005(SURFACE)101113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	6.8	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	2.0	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)101213	WS-005(SURFACE)101313	WS-005(SURFACE)101413	WS-005(SURFACE)101513	WS-005(SURFACE)101613	WS-005(SURFACE)101713	WS-005(SURFACE)101813	WS-005(SURFACE)101913	WS-005(SURFACE)102013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	92	85	84	91	95	101	80	83	78
Dissolved Oxygen	mg/l	4.38	4.77	4.45	4.21	2.7	3.13	3.87	2.27	6.04
pH	SU	7.08	7.05	7.25	7.09	6.71	6.51	7.14	6.86	7.23
Temperature	deg C	21.92	21.35	20.16	21.83	18.6	18.19	17.13	16.14	16.3
Turbidity	NTU	41.8	32.7	30.1	31.8	51.1	76.8	20	27	19.4
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0215	0.0203	0.0160	0.0291	0.0213	0.0168	0.0178	0.0249	0.0146
Barium - Total	mg/L	0.0380	0.0364	0.0275	0.0437	0.0429	0.0327	0.0268	0.0356	0.0236
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.37	5.80	5.61	6.33	6.54	5.45	4.92	5.31	5.08
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.92	2.63	2.66	2.86	2.87	2.63	2.40	2.49	2.48
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J
Nickel - Total	mg/L	< 0.0100 U	0.0020 J	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	27.9	25.3	25.0	27.6	28.2	24.5	22.2	23.5	22.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Chrysene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Fluorene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.052 UB	< 0.050 UB	< 0.052 U	< 0.052 UB	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.050 U	< 0.052 U	0.086	< 0.053 U	< 0.050 U	< 0.050 U	< 0.057 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.8 J	2.1 J	< 5.0 U	< 5.0 U	1.7 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)101213	WS-005(SURFACE)101313	WS-005(SURFACE)101413	WS-005(SURFACE)101513	WS-005(SURFACE)101613	WS-005(SURFACE)101713	WS-005(SURFACE)101813	WS-005(SURFACE)101913	WS-005(SURFACE)102013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.4	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)102113	WS-005(SURFACE)102213	WS-005(SURFACE)102313	WS-005(SURFACE)102413	WS-005(SURFACE)102513	WS-005(SURFACE)102613	WS-005(SURFACE)102713	WS-005(SURFACE)102813	WS-005(SURFACE)102913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	80	81	78	79	80	81	83	82	85
Dissolved Oxygen	mg/l	5.4	5.62	5.64	5.69	7.15	5.85	4.78	3.87	2.01
pH	SU	7.34	6.48	6.26	6.71	7.06	6.96	6.73	6.63	6.31
Temperature	deg C	15.8	15.5	15.16	15.67	13.07	13.85	14.17	14.99	15.4
Turbidity	NTU	18	61.2	46.7	16.3	20.9	19.3	17.3	30.5	73
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0154	0.0165	0.0148	0.0147	0.0127	0.0120	0.0155	0.0179	0.0301
Barium - Total	mg/L	0.0237	0.0241	0.0244	0.0218	0.0192	0.0190	0.0217	0.0340	0.0386
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.00	4.95	4.84	4.69	4.74	4.98	4.97	5.35	5.58
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.44	2.43	2.39	2.26	2.31	2.36	2.41	2.40	2.49
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	22.5	22.4	21.9	21.0	21.3	22.1	22.3	23.2	24.2
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005	WS-005
Sample Date		10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-005(SURFACE)102113	WS-005(SURFACE)102213	WS-005(SURFACE)102313	WS-005(SURFACE)102413	WS-005(SURFACE)102513	WS-005(SURFACE)102613	WS-005(SURFACE)102713	WS-005(SURFACE)102813	WS-005(SURFACE)102913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.3 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.7
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	0.6
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/30/2013	10/31/2013	4/4/2013	4/4/2013	4/5/2013	4/5/2013	4/6/2013	4/6/2013	4/7/2013	4/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-005(SURFACE)103013	WS-005(SURFACE)103113	RRS44SW6	RRS44SW6B	WS-006-04052013(SURFACE)	WS-006-04052013(0.5-1.0)	WS-006-04062013(SURFACE)	WS-006-04062013(0.5-1.0)	WS-006-04072013(SURFACE)	WS-006-04072013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	82	68	NA	NA	77.7	77.7	57	57	56	56
Dissolved Oxygen	mg/l	4.81	3.98	NA	NA	10.01 *	10.01 *	8.1	8.1	6.31	6.31
pH	SU	6.99	5.15	NA	NA	6	6	6.79	6.79	6.66	6.66
Temperature	deg C	16.85	17.7	NA	NA	15.8	15.8	16.44	16.44	17.13	17.13
Turbidity	NTU	68.2	130	NA	NA	9.15	9.15	7.8	7.8	4.6	4.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0100 U	< 0.0100 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0174	0.0236	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0266	0.0308	0.0182	0.0168	0.0191	0.0169	0.0171	0.0173	0.0170	0.0194
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.60	5.36	NA	NA	3.02	3.01	3.41	3.07	3.22	3.34
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0050 U	< 0.0050 U	0.0019 J	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0055 J	< 0.0050 U	< 0.0050 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.24	2.59	NA	NA	1.58	1.52	1.54	1.45	1.55	1.59
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0012 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0150 U	< 0.0150 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0070 U	< 0.0070 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0100 U	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	20.7	24.0	NA	NA	14.1	13.8	14.9	13.6	14.4	14.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	NA	NA	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	NA	NA	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.53 U	< 0.56 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.53 U	< 0.56 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.11 U	< 0.11 U	< 0.049 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.050 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 2.5 U	< 2.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-005	WS-005	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/30/2013	10/31/2013	4/4/2013	4/4/2013	4/5/2013	4/5/2013	4/6/2013	4/6/2013	4/7/2013	4/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-005(SURFACE)103013	WS-005(SURFACE)103113	RRS44SW6	RRS44SW6B	WS-006-04052013(SURFACE)	WS-006-04052013(0.5-1.0)	WS-006-04062013(SURFACE)	WS-006-04062013(0.5-1.0)	WS-006-04072013(SURFACE)	WS-006-04072013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	< 1.0 U	< 1.0 U	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	< 10.0 U	< 10.0 U	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	< 10.0 U	< 10.0 U	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	< 1.0 U	< 1.0 U	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 3.0 U	< 3.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/10/2013	4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/12/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)040813	WS-006(0.5-1.0)040813	WS-006(SURFACE)040913	WS-006(0.5-1.0)040913	WS-006(SURFACE)041013	WS-006(0.5-1.0)041013	WS-006(SURFACE)041113	WS-006(0.5-1.0)041113	WS-006(SURFACE)041213	WS-006(0.5-1.0)041213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	64	64	56	56	59	59	51	51	53	53
Dissolved Oxygen	mg/l	5.54	5.54	6.35	6.35	5.06	5.06	4.84	4.84	5.53	5.53
pH	SU	6.66	6.66	7.11	7.11	6.82	6.82	6.81	6.81	6.37	6.37
Temperature	deg C	18.05	18.05	20.84	20.84	20.99	20.99	17.69	17.69	20.58	20.58
Turbidity	NTU	20.1	20.1	7.5	7.5	34	34	12.4	12.4	49.3	49.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0167	0.0197	0.0146	0.0163	0.0194	0.0169	0.0215	0.0204	0.0377	0.0405
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 UB	< 0.0050 UB
Calcium - Total	mg/l	3.64	3.46	3.42	3.32	3.71	3.31	3.23	3.26	3.84	3.98
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0013 J	< 0.0150 U	0.0029 J	0.0028 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.64	1.61	1.57	1.54	1.67	1.52	1.56 J	1.53 J	1.85	1.87
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00011 J	0.000083 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0013 J	0.0016 J	0.0012 J	< 0.0100 U	< 0.0100 UB	< 0.0100 U	< 0.0100 U	0.0030 J	0.0031 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	0.0017 J	0.0016 J	0.0016 J	< 0.0050 U	0.0050	0.0049 J
Other											
Hardness (as CaCO3)	mg/l	15.8	15.3	15.0	14.6	16.2	14.5	14.5	14.5	17.2	17.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	0.067	0.053
Phenanthrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	< 5.0 U	< 5.0 U	NA	NA	< 5.0 UB	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/10/2013	4/10/2013	4/11/2013	4/11/2013	4/12/2013	4/12/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)040813	WS-006(0.5-1.0)040813	WS-006(SURFACE)040913	WS-006(0.5-1.0)040913	WS-006(SURFACE)041013	WS-006(0.5-1.0)041013	WS-006(SURFACE)041113	WS-006(0.5-1.0)041113	WS-006(SURFACE)041213	WS-006(0.5-1.0)041213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/13/2013	4/13/2013	4/14/2013	4/14/2013	4/15/2013	4/15/2013	4/16/2013	4/16/2013	4/17/2013	4/17/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)041313	WS-006(0.5-1.0)041313	WS-006(SURFACE)041413	WS-006(0.5-1.0)041413	WS-006(SURFACE)041513	WS-006(0.5-1.0)041513	WS-006(SURFACE)041613	WS-006(0.5-1.0)041613	WS-006(SURFACE)041713	WS-006(0.5-1.0)041713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	51	51	53	53	94	94	69	69	54	54
Dissolved Oxygen	mg/l	4.33	4.33	6.12	6.12	7.67	7.67	6.29	6.29	6.31	6.31
pH	SU	6.76	6.76	6.99	6.99	6.55	6.55	5.96	5.96	5.98	5.98
Temperature	deg C	18.71	18.71	22.18	22.18	20.41	20.41	21.12	21.12	24.67	24.67
Turbidity	NTU	23.7	23.7	28.3	28.3	2.3	2.3	81	81	51.3	51.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0335	0.0360	0.0215	0.0280	0.0164	0.0171	0.0203	0.0261	0.0144	0.0272
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.18	3.45	3.38	3.51	3.78	3.60	3.46	3.55	3.90	3.91
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0032 J	0.0042 J	0.0017 J	0.0022 J	0.0019 J	0.0011 J	0.0024 J	0.0019 J	< 0.0150 U	0.0031 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.66	1.71	1.63 J	1.72 J	1.78	1.68	1.68	1.75	1.81	1.91
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0026 J	0.0034 J	0.0023 J	0.0031 J	0.0017 J	0.0019 J	0.0033 J	0.0034 J	0.0020 J	0.0026 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0042 J	0.0040 J	0.0019 J	0.0031 J	0.0016 J	< 0.0050 U	0.0029 J	0.0039 J	0.0014 J	0.0035 J
Other											
Hardness (as CaCO3)	mg/l	14.8	15.7	15.1	15.8	16.8	15.9	15.6	16.1	17.2	17.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.11	< 0.052 U	< 0.051 U	< 0.051 U	0.034 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/13/2013	4/13/2013	4/14/2013	4/14/2013	4/15/2013	4/15/2013	4/16/2013	4/16/2013	4/17/2013	4/17/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)041313	WS-006(0.5-1.0)041313	WS-006(SURFACE)041413	WS-006(0.5-1.0)041413	WS-006(SURFACE)041513	WS-006(0.5-1.0)041513	WS-006(SURFACE)041613	WS-006(0.5-1.0)041613	WS-006(SURFACE)041713	WS-006(0.5-1.0)041713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013	4/20/2013	4/21/2013	4/21/2013	4/22/2013	4/22/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)041813	WS-006(0.5-1.0)041813	WS-006(SURFACE)041913	WS-006(0.5-1.0)041913	WS-006(SURFACE)042013	WS-006(0.5-1.0)042013	WS-006(SURFACE)042113	WS-006(0.5-1.0)042113	WS-006(SURFACE)042213	WS-006(0.5-1.0)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	58	58	56	56	53	53	54	54	187	187
Dissolved Oxygen	mg/l	4.5	4.5	5.67	5.67	4.1	4.1	5.09	5.09	8.81	8.81
pH	SU	6.29	6.29	6.72	6.72	6.54	6.54	7.02	7.02	7.02	7.02
Temperature	deg C	21.7	21.7	20.62	20.62	19.48	19.48	20.14	20.14	22.45	22.45
Turbidity	NTU	35.4	35.4	111	111	47	47	24.2	24.2	29.5	29.5
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	0.0075 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0284	0.0266	0.0525	0.0511	0.0465 J	0.0693 J	0.0315	0.0518	0.0211	0.0311
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.95	4.05	4.00	4.11	3.78 J	5.92 J	3.21	4.28	3.23	3.31
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0020 J	0.0015 J	0.0047 J	0.0045 J	0.0035 J	0.0027 J	0.0017 J	0.0016 J	0.0015 J	0.0020 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0063 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.84	1.87	2.14	2.17	2.00	2.48	1.83	2.08	1.60	1.63
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0013 J	0.0018 J	0.0043 J	0.0049 J	0.0034 J	0.0036 J	0.0020 J	0.0036 J	0.0020 J	0.0022 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0025 J	0.0028 J	0.0058	0.0054	0.0060	0.0043 J	0.0040 J	0.0033 J	0.0030 J	0.0031 J
Other											
Hardness (as CaCO3)	mg/l	17.4	17.8	18.8	19.2	17.7	25.0	15.6	19.3	14.7	15.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.043 J	0.045 J	0.052	0.038 J	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013	4/20/2013	4/21/2013	4/21/2013	4/22/2013	4/22/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)041813	WS-006(0.5-1.0)041813	WS-006(SURFACE)041913	WS-006(0.5-1.0)041913	WS-006(SURFACE)042013	WS-006(0.5-1.0)042013	WS-006(SURFACE)042113	WS-006(0.5-1.0)042113	WS-006(SURFACE)042213	WS-006(0.5-1.0)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/23/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013	4/25/2013	4/26/2013	4/26/2013	4/27/2013	4/27/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)042313	WS-006(0.5-1.0)042313	WS-006(SURFACE)042413	WS-006(0.5-1.0)042413	WS-006(SURFACE)042513	WS-006(0.5-1.0)042513	WS-006(SURFACE)042613	WS-006(0.5-1.0)042613	WS-006(SURFACE)042713	WS-006(0.5-1.0)042713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	183	183	169	169	206	206	185	185	201	201
Dissolved Oxygen	mg/l	8	8	6.31	6.31	7.02	7.02	7.48	7.48	5.65	5.65
pH	SU	6.24	6.24	7.07	7.07	7.03	7.03	6.84	6.84	6.4	6.4
Temperature	deg C	22.38	22.38	22.07	22.07	23.3	23.3	21	21	18.61	18.61
Turbidity	NTU	11.5	11.5	5.6	5.6	28.4	28.4	14.3	14.3	47.5	47.5
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0205	0.0220	0.0211	0.0212	0.0324	0.0327	0.0213	0.0229	0.0535	0.0306
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.65 J	3.74 J	3.26	3.36	3.38	3.80	3.38	3.45	3.82	4.12
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	0.0013 J	0.0019 J	0.0011 J	0.0020 J	0.0022 J	0.0016 J	0.0012 J	0.0024 J	0.0018 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.75	1.76	1.64	1.63	1.77	1.91	1.67	1.68	1.90	1.85
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0026 J	0.0031 J	0.0020 J	0.0014 J	0.0032 J	0.0029 J	0.0019 J	0.0024 J	0.0028 J	0.0023 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0030 J	0.0032 J	0.0017 J	< 0.0050 U	0.0027 J	0.0029 J	0.0032 J	0.0032 J	0.0039 J	0.0027 J
Other											
Hardness (as CaCO3)	mg/l	16.3	16.6	14.9	15.1	15.7	17.4	15.3	15.5	17.4	17.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 UJ	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	0.012 J	< 0.050 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.089	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	1.5 J	< 5.0 U	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/23/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013	4/25/2013	4/26/2013	4/26/2013	4/27/2013	4/27/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)042313	WS-006(0.5-1.0)042313	WS-006(SURFACE)042413	WS-006(0.5-1.0)042413	WS-006(SURFACE)042513	WS-006(0.5-1.0)042513	WS-006(SURFACE)042613	WS-006(0.5-1.0)042613	WS-006(SURFACE)042713	WS-006(0.5-1.0)042713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/28/2013	4/28/2013	4/29/2013	4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)042813	WS-006(0.5-1.0)042813	WS-006(SURFACE)042913	WS-006(0.5-1.0)042913	WS-006(SURFACE)043013	WS-006(0.5-1.0)043013	WS-006(SURFACE)050113	WS-006(0.5-1.0)050113	WS-006(SURFACE)050213	WS-006(0.5-1.0)050213
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	179	179	178	178	93	93	56	56	55	55
Dissolved Oxygen	mg/l	6.31	6.31	6.8	6.8	5.68	5.68	NA	NA	4.69	4.69
pH	SU	6.92	6.92	7.45	7.45	7.05	7.05	6.49	6.49	7.11	7.11
Temperature	deg C	21.11	21.11	23.34	23.34	24.52	24.52	24.31	24.31	23.57	23.57
Turbidity	NTU	23.2	23.2	35.9	35.9	80.1	80.1	221	221	28.3	28.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0093 J	0.0456	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0267	0.0299	0.183	0.394	0.0531	0.236	0.0196	0.0194	0.0216	0.410
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.14	3.32	4.20	5.08	3.81	4.39	3.33	3.35	3.68	5.72
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0021 J	0.0023 J	0.0038 J	0.0185	0.0034 J	0.0047 J	< 0.0150 U	0.0012 J	0.0019 J	0.0032 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0105 J	0.0382	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.65	1.71	2.45	3.70	2.00	2.55	1.63	1.63	1.77 J	2.85 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0020 J	0.0030 J	0.0038 J	0.0152	0.0031 J	0.0041 J	0.0011 J	0.0014 J	0.0017 J	0.0034 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0013 J
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0028 J	0.0026 J	0.0074	0.0284	0.0051	0.0070	0.0020 J	0.0019 J	0.0028 J	0.0047 J
Other											
Hardness (as CaCO3)	mg/l	14.6	15.3	20.6	27.9	17.8	21.5	15.0	15.1	16.5	26.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.015 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.019 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	0.019 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.033 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	0.017 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.018 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	0.061
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.012 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	0.016 J
Chrysene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.023 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	0.065
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.031 J	< 0.052 U	0.012 J	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.017 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	0.062
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.052 UJ	< 0.051 U	0.026 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	< 5.0 UBJ	< 5.0 UBJ	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		4/28/2013	4/28/2013	4/29/2013	4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)042813	WS-006(0.5-1.0)042813	WS-006(SURFACE)042913	WS-006(0.5-1.0)042913	WS-006(SURFACE)043013	WS-006(0.5-1.0)043013	WS-006(SURFACE)050113	WS-006(0.5-1.0)050113	WS-006(SURFACE)050213	WS-006(0.5-1.0)050213
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	4.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	0.2 J	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/3/2013	5/3/2013	5/4/2013	5/4/2013	5/5/2013	5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/7/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)050313	WS-006(0.5-1.0)050313	WS-006(SURFACE)050413	WS-006(0.5-1.0)050413	WS-006(SURFACE)050513	WS-006(0.5-1.0)050513	WS-006(SURFACE)050613	WS-006(0.5-1.0)050613	WS-006(SURFACE)050713	WS-006(0.5-1.0)050713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	53	53	53	53	52	52	52	52	51	51
Dissolved Oxygen	mg/l	5.49	5.49	4.01	4.01	5.62	5.62	14.65 *	14.65 *	12.11 *	12.11 *
pH	SU	7.79	7.79	6.81	6.81	5.99	5.99	6.32	6.32	7.03	7.03
Temperature	deg C	18.68	18.68	17.19	17.19	17.28	17.28	20.08	20.08	22.39	22.39
Turbidity	NTU	167	167	90.6	90.6	99.8	99.8	256	256	81.7	81.7
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0673	0.0679	0.0496	0.0484	0.0711	0.0496	0.0424	0.0354	0.0311	0.0369
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.90	3.93	3.67	3.68	3.95	3.68	3.47	3.42	3.35	3.51
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0065 J	0.0064 J	0.0051 J	0.0049 J	0.0067 J	0.0045 J	0.0045 J	0.0037 J	0.0032 J	0.0036 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0061 J	0.0090 J	0.0084 J	0.0080 J	0.0055 J	0.0092 J	0.0070 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.27	2.27	2.12	2.09	2.23	2.01	1.93	1.87	1.74	1.83
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0062 J	0.0061 J	0.0036 J	0.0034 J	0.0062 J	0.0041 J	0.0034 J	0.0036 J	0.0029 J	0.0031 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0109	0.0107	0.0080	0.0079	0.0100	0.0075	0.0064	0.0048 J	0.0055	0.0057
Other											
Hardness (as CaCO3)	mg/l	19.1	19.2	17.9	17.8	19.1	17.5	16.6	16.2	15.5	16.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	0.014 J	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	0.012 J	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	0.018 J	< 0.058 U	< 0.058 U	0.028 J	< 0.052 U	0.016 J	0.012 J
Fluorene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.058 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.061 U	< 0.059 U	0.019 J	< 0.058 U	< 0.058 U	0.023 J	< 0.052 U	0.012 J	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/3/2013	5/3/2013	5/4/2013	5/4/2013	5/5/2013	5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/7/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)050313	WS-006(0.5-1.0)050313	WS-006(SURFACE)050413	WS-006(0.5-1.0)050413	WS-006(SURFACE)050513	WS-006(0.5-1.0)050513	WS-006(SURFACE)050613	WS-006(0.5-1.0)050613	WS-006(SURFACE)050713	WS-006(0.5-1.0)050713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/8/2013	5/8/2013	5/9/2013	5/9/2013	5/10/2013	5/10/2013	5/11/2013	5/11/2013	5/12/2013	5/12/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)050813	WS-006(0.5-1.0)050813	WS-006(SURFACE)050913	WS-006(0.5-1.0)050913	WS-006(SURFACE)051013	WS-006(0.5-1.0)051013	WS-006(SURFACE)051113	WS-006(0.5-1.0)051113	WS-006(SURFACE)051213	WS-006(0.5-1.0)051213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	55	55	61	61	55	55	58	58	52	52
Dissolved Oxygen	mg/l	6.41	6.41	4.13	4.13	4.59	4.59	6.29	6.29	5.06	5.06
pH	SU	6.77	6.77	6.59	6.59	6.99	6.99	6.91	6.91	6.75	6.75
Temperature	deg C	24.69	24.69	24.44	24.44	24.95	24.95	22.45	22.45	22.27	22.27
Turbidity	NTU	139	139	175	175	29.8	29.8	32.2	32.2	209	209
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0097 J	0.0081 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0376	0.0437	0.0811	0.151	0.0259	0.0312	0.0366	0.0445	0.0243	0.0259
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.59	3.61	4.50	5.13	3.44	3.56	3.66	3.78	3.58	3.66
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0035 J	0.0046 J	0.0113 J	0.0119 J	0.0020 J	0.0030 J	0.0026 J	0.0034 J	0.0014 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0068 J	0.0152	0.0176	0.0053 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.99 J	2.05 J	2.81	3.00	1.81	1.91	1.88	2.00	1.78	1.81
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0040 J	0.0047 J	0.0080 J	0.0085 J	0.0026 J	0.0029 J	0.0026 J	0.0040 J	0.0017 J	0.0017 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0060	0.0066	0.0162	0.0172	0.0029 J	0.0044 J	0.0037 J	0.0053	0.0021 J	0.0019 J
Other											
Hardness (as CaCO3)	mg/l	17.2	17.5	22.8	25.2	16.1	16.7	16.9	17.7	16.3	16.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	0.013 J	< 0.051 U	< 0.051 U	< 0.051 U	0.012 J	0.031 J	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.020 J	0.075	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.025 J	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	0.021 J	< 0.051 U	< 0.051 U	< 0.051 U	0.017 J	0.079	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	0.013 J	0.025 J	0.016 J	< 0.051 U	< 0.051 U	0.024 J	0.11	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.018 J	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.067	0.058	0.063	0.053	< 0.051 U	< 0.051 U	0.090	0.089
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	0.012 J	0.024 J	0.017 J	< 0.051 U	< 0.051 U	0.021 J	0.094	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/8/2013	5/8/2013	5/9/2013	5/9/2013	5/10/2013	5/10/2013	5/11/2013	5/11/2013	5/12/2013	5/12/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(SURFACE)050813	WS-006(0.5-1.0)050813	WS-006(SURFACE)050913	WS-006(0.5-1.0)050913	WS-006(SURFACE)051013	WS-006(0.5-1.0)051013	WS-006(SURFACE)051113	WS-006(0.5-1.0)051113	WS-006(SURFACE)051213	WS-006(0.5-1.0)051213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/13/2013	5/13/2013	5/14/2013	5/14/2013	5/14/2013	5/15/2013	5/15/2013	5/16/2013	5/16/2013	5/17/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(SURFACE)051313	WS-006(0.5-1.0)051313	WS-006(SURFACE)051413	WS-DUP-25-051413	WS-006(0.5-1.0)051413	WS-006(SURFACE)051513	WS-006(0.5-1.0)051513	WS-006(SURFACE)051613	WS-006(0.5-1.0)051613	WS-006(SURFACE)051713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	60	60	58	NA	58	58	58	54	54	57
Dissolved Oxygen	mg/l	8.6	8.6	6.18	NA	6.18	4.67	4.67	4.44	4.44	3.98
pH	SU	6.71	6.71	6.51	NA	6.51	7.06	7.06	6.9	6.9	6.71
Temperature	deg C	24.28	24.28	24.23	NA	24.23	24.93	24.93	23.02	23.02	24.91
Turbidity	NTU	156	156	90.2	NA	90.2	23.7	23.7	41.9	41.9	41.9
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0079 J	< 0.0200 U	0.0150 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0351	0.0564	0.0202	0.0201	0.0223	0.0232	0.0258	0.0227	0.0218	0.0191
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.78	3.90	3.67	3.56	3.69	3.58	3.75	3.57	3.64	3.71
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0027 J	0.0051 J	0.0012 J	< 0.0150 U	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0017 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0109 J	0.0093 J	< 0.0150 U	0.0067 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.96	2.21	1.85 J	1.78 J	1.81 J	1.72	1.76	1.74	1.76	1.79
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0035 J	0.0041 J	0.0022 J	0.0017 J	0.0021 J	0.0014 J	0.0016 J	0.0017 J	0.0016 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0051	0.0085	< 0.0050 U	0.0018 J	< 0.0050 U	0.0014 J	0.0020 J	0.0019 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	17.5	18.9	16.8	16.2	16.7	16.0	16.6	16.1	16.3	16.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	0.013 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	0.015 J	0.016 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	0.017 J	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	0.075	0.11	< 0.051 U	< 0.050 U	< 0.051 U	< 0.18 UB	0.20	0.095	0.091	0.046 J
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.050 U	0.015 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	0.015 J	< 0.051 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/13/2013	5/13/2013	5/14/2013	5/14/2013	5/14/2013	5/15/2013	5/15/2013	5/16/2013	5/16/2013	5/17/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(SURFACE)051313	WS-006(0.5-1.0)051313	WS-006(SURFACE)051413	WS-DUP-25-051413	WS-006(0.5-1.0)051413	WS-006(SURFACE)051513	WS-006(0.5-1.0)051513	WS-006(SURFACE)051613	WS-006(0.5-1.0)051613	WS-006(SURFACE)051713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/17/2013	5/18/2013	5/18/2013	5/19/2013	5/19/2013	5/20/2013	5/20/2013	5/21/2013	5/21/2013	5/22/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)051713	WS-006(SURFACE)051813	WS-006(0.5-1.0)051813	WS-006(SURFACE)051913	WS-006(0.5-1.0)051913	WS-006(SURFACE)052013	WS-006(0.5-1.0)052013	WS-006(SURFACE)052113	WS-006(0.5-1.0)052113	WS-006(SURFACE)052213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	57	59	59	59	59	59	59	63	63	58
Dissolved Oxygen	mg/l	3.98	4.6	4.6	2.26	2.26	2.96	2.96	4.43	4.43	3.95
pH	SU	6.71	6.61	6.61	6.69	6.69	6.77	6.77	6.68	6.68	6.63
Temperature	deg C	24.91	26.7	26.7	25.72	25.72	26.28	26.28	24.89	24.89	24.3
Turbidity	NTU	41.9	29.9	29.9	74.1	74.1	109	109	147	147	46.5
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0084 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0073 J	< 0.0200 U	< 0.0200 U	0.0184 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0209	0.0190	0.0204	0.0244	0.0350	0.0361	0.0889	0.0220	0.0254	0.0241
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00055 J
Calcium - Total	mg/l	3.74	3.74	3.80	3.92	4.14	4.08	4.79	3.87	3.87	4.10
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0015 J	< 0.0150 U	0.0014 J	< 0.0150 U	0.0018 J	0.0016 J	0.0079 J	< 0.0150 U	< 0.0150 U	0.0033 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0123 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.80	1.81	1.83	1.89	2.09	2.00	2.81	1.84	1.92	1.86 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0012 J	0.0016 J	0.0019 J	0.0021 J	0.0032 J	0.0022 J	0.0079 J	0.0021 J	0.0021 J	0.0016 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0019 J	0.0016 J	0.0034 J	0.0030 J	0.0129	0.0015 J	0.0022 J	0.0032 J
Other											
Hardness (as CaCO3)	mg/l	16.7	16.8	17.0	17.6	19.0	18.4	23.5	17.2	17.6	17.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.025 J	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	0.029 J	< 0.051 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.037 J	< 0.051 U	0.030 J	< 0.051 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	0.043 J	< 0.051 U	< 0.051 U	0.032 J	0.033 J	0.039 J	0.056	0.056	0.068	< 0.050 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.024 J	< 0.051 U	0.021 J	< 0.051 U	< 0.051 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/17/2013	5/18/2013	5/18/2013	5/19/2013	5/19/2013	5/20/2013	5/20/2013	5/21/2013	5/21/2013	5/22/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)051713	WS-006(SURFACE)051813	WS-006(0.5-1.0)051813	WS-006(SURFACE)051913	WS-006(0.5-1.0)051913	WS-006(SURFACE)052013	WS-006(0.5-1.0)052013	WS-006(SURFACE)052113	WS-006(0.5-1.0)052113	WS-006(SURFACE)052213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.7	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/22/2013	5/23/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013	5/25/2013	5/26/2013	5/26/2013	5/27/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)052213	WS-006(SURFACE)052313	WS-006(0.5-1.0)052313	WS-006(SURFACE)052413	WS-006(0.5-1.0)052413	WS-006(SURFACE)052513	WS-006(0.5-1.0)052513	WS-006(SURFACE)052613	WS-006(0.5-1.0)052613	WS-006(SURFACE)052713
Validation Level		Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	58	59	59	59	59	58	58	59	59	59
Dissolved Oxygen	mg/l	3.95	4.27	4.27	3.61	3.61	4.27	4.27	4.05	4.05	4.18
pH	SU	6.63	6.92	6.92	6.5	6.5	7.06	7.06	6.98	6.98	7.05
Temperature	deg C	24.3	25.56	25.56	24.42	24.42	25.93	25.93	26.99	26.99	27.61
Turbidity	NTU	46.5	130	130	120	120	168	168	54.9	54.9	40.9
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0278	0.0270 J	0.0277 J	0.0526	0.0492	0.0478	0.0670	0.0241	0.0372	0.0333
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.93	3.81	3.78	4.18	4.07	4.14	4.39	4.19	4.16	4.11
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	0.0023 J	0.0025 J	0.0052 J	0.0049 J	0.0050 J	0.0097 J	0.0015 J	0.0029 J	0.0022 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0053 J	0.0058 J	0.0130 J	0.0185	< 0.0150 U	< 0.0150 U	0.0054 J
Magnesium - Total	mg/l	1.86 J	1.91	1.94	2.30 J	2.21 J	2.31	2.51	1.97	2.08	2.10
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0018 J	0.0032 J	0.0028 J	0.0046 J	0.0041 J	0.0043 J	0.0074 J	0.0023 J	0.0037 J	0.0027 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0016 J	0.0029 J	0.0025 J	0.0083	0.0075	0.0075	0.0108	0.0023 J	0.0048 J	0.0039 J
Other											
Hardness (as CaCO3)	mg/l	17.5	17.4	17.4	19.9	19.3	19.8	21.3	18.6	19.0	18.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.014 J	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.085 J	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.041 J	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	< 0.051 UJ	0.023 J	0.095	< 0.050 U	0.021 J	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.026 J	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.031 J	< 0.050 U	< 0.050 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	0.013 J	< 0.051 U	< 0.051 U	< 0.051 UJ	0.018 J	0.081	< 0.050 U	0.011 J	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	0.034 J	0.013 J	< 0.051 U	< 0.051 UJ	0.030 J	0.19	< 0.050 U	0.023 J	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.033 J	< 0.050 U	< 0.050 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	0.062	0.069	< 0.051 U	< 0.051 UJ	0.056	0.087	< 0.050 U	< 0.050 U	0.031 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	0.052	< 0.050 U	< 0.050 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	0.029 J	0.011 J	0.012 J	< 0.051 UJ	0.037 J	0.27	< 0.050 U	0.026 J	0.011 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/22/2013	5/23/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013	5/25/2013	5/26/2013	5/26/2013	5/27/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)052213	WS-006(SURFACE)052313	WS-006(0.5-1.0)052313	WS-006(SURFACE)052413	WS-006(0.5-1.0)052413	WS-006(SURFACE)052513	WS-006(0.5-1.0)052513	WS-006(SURFACE)052613	WS-006(0.5-1.0)052613	WS-006(SURFACE)052713
Validation Level		Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/27/2013	5/28/2013	5/28/2013	5/29/2013	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)052713	WS-006(SURFACE)052813	WS-006(0.5-1.0)052813	WS-006(SURFACE)052913	WS-006(0.5-1.0)052913	WS-006(SURFACE)053013	WS-006(0.5-1.0)053013	WS-006(SURFACE)053113	WS-006(0.5-1.0)053113	WS-006(SURFACE)060113
Validation Level		Tier II	Tier III	Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	59	63	63	63	63	62	62	52	52	55
Dissolved Oxygen	mg/l	4.18	3.92	3.92	3.06	3.06	3.87	3.87	1.82	1.82	2.59
pH	SU	7.05	7.12	7.12	6.95	6.95	6.95	6.95	6.6	6.6	6.57
Temperature	deg C	27.61	27.99	27.99	27.94	27.94	28.21	28.21	25.78	25.78	25.51
Turbidity	NTU	40.9	75.6	75.6	73.2	73.2	50.4	50.4	227	227	93.9
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0308	0.0405	0.0232	0.0373	0.0550	0.0216	0.0230	0.0424	0.0450	0.0349
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.08	4.27	3.97	4.27	4.29	4.03	4.08	3.80	3.80	3.87
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0023 J	0.0039 J	0.0012 J	0.0020 J	0.0042 J	< 0.0150 U	< 0.0150 U	0.0031 J	0.0037 J	0.0030 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0058 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0055 J	< 0.0150 U
Magnesium - Total	mg/l	2.07	2.24	1.89	2.19	2.42	1.87 J	1.90 J	1.97	2.02	1.88
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0035 J	0.0042 J	0.0016 J	0.0023 J	0.0041 J	0.0014 J	0.0018 J	0.0038 J	0.0037 J	0.0024 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0036 J	0.0054	0.0015 J	0.0036 J	0.0079	< 0.0050 U	< 0.0050 U	0.0051	0.0061	0.0046 J
Other											
Hardness (as CaCO3)	mg/l	18.7	19.9	17.7	19.7	20.7	17.7	18.0	17.6	17.8	17.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.022 J
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	0.042 J	0.051 J	0.065	< 0.050 U	< 0.051 U	0.052	0.046 J	0.031 J	0.050 J	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	0.013 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.021 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		5/27/2013	5/28/2013	5/28/2013	5/29/2013	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)052713	WS-006(SURFACE)052813	WS-006(0.5-1.0)052813	WS-006(SURFACE)052913	WS-006(0.5-1.0)052913	WS-006(SURFACE)053013	WS-006(0.5-1.0)053013	WS-006(SURFACE)053113	WS-006(0.5-1.0)053113	WS-006(SURFACE)060113
Validation Level		Tier II	Tier III	Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/3/2013	6/4/2013	6/4/2013	6/5/2013	6/5/2013	6/6/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)060113	WS-006(SURFACE)060213	WS-006(0.5-1.0)060213	WS-006(SURFACE)060313	WS-006(0.5-1.0)060313	WS-006(SURFACE)060413	WS-006(0.5-1.0)060413	WS-006(SURFACE)060513	WS-006(0.5-1.0)060513	WS-006(SURFACE)060613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	55	53	53	55	55	56	56	61	61	60
Dissolved Oxygen	mg/l	2.59	3.94	3.94	4.13	4.13	4.29	4.29	6.01	6.01	4.86
pH	SU	6.57	6.99	6.99	6.81	6.81	8.45	8.45	6.29	6.29	7.09
Temperature	deg C	25.51	27.74	27.74	25.56	25.56	28.13	28.13	29.5	29.5	28.44
Turbidity	NTU	93.9	59.4	59.4	77.7	77.7	61.2	61.2	55.9	55.9	69
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0351	0.0281	0.0292	0.0258	0.0264	0.0228	0.0240	0.0225	0.0214	0.0180
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.63	3.43	3.53	3.58	3.55	3.76	3.78	3.64	3.66	3.79
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0028 J	0.0023 J	0.0020 J	0.0015 J	0.0014 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.82	1.67	1.72	1.75	1.74	1.75	1.77	1.74	1.76	1.79
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0024 J	0.0019 J	0.0023 J	0.0019 J	0.0020 J	0.0017 J	0.0020 J	0.0019 J	0.0023 J	0.0015 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0051	0.0029 J	0.0028 J	0.0027 J	0.0031 J	< 0.0050 U	0.0016 J	0.0016 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	16.6	15.4	15.9	16.1	16.0	16.6	16.7	16.2	16.4	16.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.011 J	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	0.027 J	< 0.051 U	0.011 J	0.011 J	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	0.020 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	0.029 J	< 0.051 U	0.019 J	0.012 J	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	0.065	0.067	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	0.034 J	< 0.051 U	0.017 J	0.014 J	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/3/2013	6/4/2013	6/4/2013	6/5/2013	6/5/2013	6/6/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)060113	WS-006(SURFACE)060213	WS-006(0.5-1.0)060213	WS-006(SURFACE)060313	WS-006(0.5-1.0)060313	WS-006(SURFACE)060413	WS-006(0.5-1.0)060413	WS-006(SURFACE)060513	WS-006(0.5-1.0)060513	WS-006(SURFACE)060613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/8/2013	6/9/2013	6/9/2013	6/10/2013	6/10/2013	6/11/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)060613	WS-006(SURFACE)060713	WS-006(0.5-1.0)060713	WS-006(SURFACE)060813	WS-006(0.5-1.0)060813	WS-006(SURFACE)060913	WS-006(0.5-1.0)060913	WS-006(SURFACE)061013	WS-006(0.5-1.0)061013	WS-006(SURFACE)061113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	60	72	72	65	65	76	76	75	75	78
Dissolved Oxygen	mg/l	4.86	6.77	6.77	3.71	3.71	4.08	4.08	3.7	3.7	3.11
pH	SU	7.09	6.16	6.16	6.66	6.66	6.96	6.96	6.82	6.82	6.73
Temperature	deg C	28.44	27.12	27.12	26.97	26.97	26.86	26.86	26.82	26.82	26.71
Turbidity	NTU	69	59	59	19.5	19.5	18.9	18.9	15.1	15.1	16.4
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0191	0.0212	0.0190	0.0239	0.0279	0.0237	0.0262	0.0166	0.0175	0.0190
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.95	4.34	4.26	4.11	4.24	4.31	4.47	4.30	4.29	4.26
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0063 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.85	2.02	1.97	1.95	1.99	2.18	2.10	1.97	1.98	1.95
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 UJ	< 0.00020 UJ	< 0.00020 U	0.000072 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00015 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0013 J	0.0019 J	0.0024 J	0.0018 J	0.0024 J	0.0016 J	0.0013 J	0.0014 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	0.0019 J	0.0017 J	0.0024 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	17.5	19.2	18.8	18.3	18.8	19.7	19.8	18.8	18.9	18.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	0.012 J	< 0.051 U	< 0.057 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	0.037 J	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	0.013 J	0.011 J	< 0.057 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/8/2013	6/9/2013	6/9/2013	6/10/2013	6/10/2013	6/11/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)060613	WS-006(SURFACE)060713	WS-006(0.5-1.0)060713	WS-006(SURFACE)060813	WS-006(0.5-1.0)060813	WS-006(SURFACE)060913	WS-006(0.5-1.0)060913	WS-006(SURFACE)061013	WS-006(0.5-1.0)061013	WS-006(SURFACE)061113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/11/2013	6/12/2013	6/12/2013	6/13/2013	6/13/2013	6/14/2013	6/14/2013	6/15/2013	6/15/2013	6/16/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)061113	WS-006(SURFACE)061213	WS-006(0.5-1.0)061213	WS-006(SURFACE)061313	WS-006(0.5-1.0)061313	WS-006(SURFACE)061413	WS-006(0.5-1.0)061413	WS-006(SURFACE)061513	WS-006(0.5-1.0)061513	WS-006(SURFACE)061613
Validation Level		Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	78	78	79	79	67	67	70	70	70
Dissolved Oxygen	mg/l	3.11	4.65	4.65	5.38	5.38	4.8	4.8	4.74	4.74	4.9
pH	SU	6.73	6.76	6.76	6.83	6.83	7.21	7.21	7.05	7.05	6.95
Temperature	deg C	26.71	27.55	27.55	28.8	28.8	29.55	29.55	30.39	30.39	30.2
Turbidity	NTU	16.4	19.1	19.1	17	17	16.5	16.5	16.7	16.7	15.6
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0184	0.0219	0.0237	0.0253	0.0211	0.0189	0.0201	0.0174	0.0203	0.0187
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	0.00041 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.36	4.38	4.54	4.68	4.42	4.47	4.50	4.52	4.35	4.58
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.00	2.12	2.20	2.17	2.07	2.07	2.09	2.11	2.10	2.17
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 UJ	0.000094 J	0.00025	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0016 J	0.0013 J	< 0.0100 U	0.0014 J	0.0012 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0015 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	19.1	19.7	20.4	20.6	19.6	19.7	19.8	20.0	19.5	20.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	0.012 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	0.015 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	0.011 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	0.013 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.015 J	0.011 J
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	0.053	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/11/2013	6/12/2013	6/12/2013	6/13/2013	6/13/2013	6/14/2013	6/14/2013	6/15/2013	6/15/2013	6/16/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)061113	WS-006(SURFACE)061213	WS-006(0.5-1.0)061213	WS-006(SURFACE)061313	WS-006(0.5-1.0)061313	WS-006(SURFACE)061413	WS-006(0.5-1.0)061413	WS-006(SURFACE)061513	WS-006(0.5-1.0)061513	WS-006(SURFACE)061613
Validation Level		Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/16/2013	6/17/2013	6/17/2013	6/18/2013	6/18/2013	6/19/2013	6/19/2013	6/20/2013	6/20/2013	6/21/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)061613	WS-006(SURFACE)061713	WS-006(0.5-1.0)061713	WS-006(SURFACE)061813	WS-006(0.5-1.0)061813	WS-006(SURFACE)061913	WS-006(0.5-1.0)061913	WS-006(SURFACE)062013	WS-006(0.5-1.0)062013	WS-006(SURFACE)062113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	70	70	70	73	73	82	82	74	74	73
Dissolved Oxygen	mg/l	4.9	3.74	3.74	3.93	3.93	4.74	4.74	6.75	6.75	4.95
pH	SU	6.95	6.78	6.78	7	7	7.05	7.05	5.75	5.75	7.57
Temperature	deg C	30.2	29.52	29.52	29.75	29.75	31.82	31.82	31.02	31.02	31.11
Turbidity	NTU	15.6	15.7	15.7	13.6	13.6	11.4	11.4	13.5	13.5	15.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0176	0.0219	0.0239	0.0217	0.0235	0.0394	0.0220	0.0155	0.0147	0.0152
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.41	5.01	4.95	4.92	4.83	4.94	4.85	4.97	4.90	4.93
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0026 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.10	2.25	2.23	2.27	2.24	2.57 J	2.29 J	2.30	2.27	2.27
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0011 J	< 0.0100 U	< 0.0100 U	0.0034 J	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0057	0.0016 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	19.7	21.8	21.5	21.6	21.3	22.9	21.5	21.9	21.6	21.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 U	1.7 J	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/16/2013	6/17/2013	6/17/2013	6/18/2013	6/18/2013	6/19/2013	6/19/2013	6/20/2013	6/20/2013	6/21/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)061613	WS-006(SURFACE)061713	WS-006(0.5-1.0)061713	WS-006(SURFACE)061813	WS-006(0.5-1.0)061813	WS-006(SURFACE)061913	WS-006(0.5-1.0)061913	WS-006(SURFACE)062013	WS-006(0.5-1.0)062013	WS-006(SURFACE)062113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.3 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/21/2013	6/22/2013	6/22/2013	6/23/2013	6/23/2013	6/24/2013	6/24/2013	6/25/2013	6/25/2013	6/26/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)062113	WS-006(SURFACE)062213	WS-006(0.5-1.0)062213	WS-006(SURFACE)062313	WS-006(0.5-1.0)062313	WS-006(SURFACE)062413	WS-006(0.5-1.0)062413	WS-006(SURFACE)062513	WS-006(0.5-1.0)062513	WS-006(SURFACE)062613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	76	76	75	75	79	79	80	80	76
Dissolved Oxygen	mg/l	4.95	4.7	4.7	4.85	4.85	2.68	2.68	4.17	4.17	3.21
pH	SU	7.57	5.83	5.83	6.81	6.81	6.72	6.72	6.22	6.22	5.87
Temperature	deg C	31.11	30.86	30.86	30.3	30.3	30.93	30.93	31.23	31.23	31.52
Turbidity	NTU	15.2	14.6	14.6	15.7	15.7	19.8	19.8	12.4	12.4	14.1
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0255	0.0218	0.0186	0.0164	0.0332	0.0227	0.0231	0.0259	0.0257	0.0333
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.20	5.14	5.12	5.36	5.40	5.37	5.40	5.48	5.45	5.48
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0020 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.48	2.36	2.33	2.47	2.60	2.49	2.49	2.50	2.46	2.48
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0024 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0022 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0027 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0031 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	23.2	22.6	22.4	23.6	24.2	23.7	23.7	24.0	23.8	23.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.064 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/21/2013	6/22/2013	6/22/2013	6/23/2013	6/23/2013	6/24/2013	6/24/2013	6/25/2013	6/25/2013	6/26/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)062113	WS-006(SURFACE)062213	WS-006(0.5-1.0)062213	WS-006(SURFACE)062313	WS-006(0.5-1.0)062313	WS-006(SURFACE)062413	WS-006(0.5-1.0)062413	WS-006(SURFACE)062513	WS-006(0.5-1.0)062513	WS-006(SURFACE)062613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/26/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/29/2013	6/29/2013	6/30/2013	6/30/2013	7/1/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)062613	WS-006(SURFACE)062713	WS-006(0.5-1.0)062713	WS-006(SURFACE)062813	WS-006(0.5-1.0)062813	WS-006(SURFACE)062913	WS-006(0.5-1.0)062913	WS-006(SURFACE)063013	WS-006(0.5-1.0)063013	WS-006(SURFACE)070113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	81	81	82	82	68	68	79	79	79
Dissolved Oxygen	mg/l	3.21	4.35	4.35	4.97	4.97	5.55	5.55	4.16	4.16	5.61
pH	SU	5.87	6.92	6.92	6.41	6.41	6.76	6.76	6.03	6.03	7.54
Temperature	deg C	31.52	32.8	32.8	32.88	32.88	31.42	31.42	29.61	29.61	29.6
Turbidity	NTU	14.1	19.4	19.4	16.2	16.2	36	36	30.6	30.6	37.5
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0436	0.0333	0.0333	0.0279	0.0371	0.0279	0.0392	0.0346	0.0414	0.0326
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.57	5.85	5.81	5.54	5.62	5.47	5.43	5.22	5.41	5.09
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0018 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0026 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0047 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.56	2.60	2.62	2.53 J	2.66 J	2.50 J	2.52 J	2.43 J	2.57 J	2.39
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0023 J	< 0.0100 U	0.0019 J	< 0.0100 U	0.0020 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0030 J	< 0.0050 U	0.0024 J	0.0023 J	0.0044 J	< 0.0050 U	0.0023 J	< 0.0050 U	0.0026 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.5	25.3	25.3	24.3	25.0	24.0	23.9	23.0	24.1	22.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.074 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	0.17	0.21	0.11
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	0.10	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.054
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 UJ
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		6/26/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/29/2013	6/29/2013	6/30/2013	6/30/2013	7/1/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)062613	WS-006(SURFACE)062713	WS-006(0.5-1.0)062713	WS-006(SURFACE)062813	WS-006(0.5-1.0)062813	WS-006(SURFACE)062913	WS-006(0.5-1.0)062913	WS-006(SURFACE)063013	WS-006(0.5-1.0)063013	WS-006(SURFACE)070113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J	3.6 J	3.4 J	< 5.0 U	3.2 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.7	< 0.5 U	0.1 J	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/1/2013	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/4/2013	7/4/2013	7/5/2013	7/5/2013	7/6/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)070113	WS-006(SURFACE)070213	WS-006(0.5-1.0)070213	WS-006(SURFACE)070313	WS-006(0.5-1.0)070313	WS-006(SURFACE)070413	WS-006(0.5-1.0)070413	WS-006(SURFACE)070513	WS-006(0.5-1.0)070513	WS-006(SURFACE)070613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	79	70	70	86	86	68	68	73	73	74
Dissolved Oxygen	mg/l	5.61	5.31	5.31	5.51	5.51	5.97	5.97	4.36	4.36	3.45
pH	SU	7.54	6.92	6.92	6.09	6.09	7.75	7.75	7.32	7.32	6.77
Temperature	deg C	29.6	27.82	27.82	27.84	27.84	30.11	30.11	29.28	29.28	29.82
Turbidity	NTU	37.5	57.8	57.8	16.7	16.7	22.8	22.8	18.6	18.6	22.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0297	0.0276	0.0308	0.0276	0.0320	0.0234	0.0469	0.0225	0.0236	0.0201
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.30	5.26 J	5.32 J	5.47	5.43	5.11	5.20	5.27	5.31	5.29 J
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0035 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0062 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.47	2.50	2.48	2.54	2.54	2.40	2.67	2.49	2.44	2.47 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0034 J	0.0016 J	< 0.0100 U	0.0015 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0062	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	23.4	23.4	23.5	24.1	24.0	22.7	24.0	23.4	23.3	23.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	0.095	0.031 J	< 0.051 U	< 0.051 U	< 0.052 U	0.19	0.19 J	< 0.051 U	< 0.051 U	0.22
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	0.015 J	0.021 J	< 0.051 U	0.071	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.2 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/1/2013	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/4/2013	7/4/2013	7/5/2013	7/5/2013	7/6/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)070113	WS-006(SURFACE)070213	WS-006(0.5-1.0)070213	WS-006(SURFACE)070313	WS-006(0.5-1.0)070313	WS-006(SURFACE)070413	WS-006(0.5-1.0)070413	WS-006(SURFACE)070513	WS-006(0.5-1.0)070513	WS-006(SURFACE)070613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/6/2013	7/7/2013	7/7/2013	7/8/2013	7/8/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)070613	WS-006(SURFACE)070713	WS-006(0.5-1.0)070713	WS-006(SURFACE)070813	WS-006(0.5-1.0)070813	WS-006(SURFACE)070913	WS-006(0.5-1.0)070913	WS-006(SURFACE)071013	WS-006(0.5-1.0)071013	WS-006(SURFACE)071113
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	69	69	115	115	74	74	71	71	73
Dissolved Oxygen	mg/l	3.45	4.4	4.4	2.88	2.88	2.77	2.77	1.35	1.35	1.67
pH	SU	6.77	6.99	6.99	5.6	5.6	5.65	5.65	6.3	6.3	6.54
Temperature	deg C	29.82	30.95	30.95	30.19	30.19	29.04	29.04	30.46	30.46	29.08
Turbidity	NTU	22.3	19.8	19.8	27.2	27.2	20	20	87.9	87.9	16.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.116	0.100	< 0.0200 U	< 0.0200 U	0.0255	0.010 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0251	0.0181	0.0220	0.318	0.302	0.0414	0.0670	0.249	0.175	0.0479
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00099 J	0.0012 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.27 J	5.40 J	5.28 J	12.5	9.60	6.10	6.27	8.47	6.33	5.64
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0343	0.0308	< 0.0150 U	0.0031 J	0.0124 J	0.0023 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0163	0.0171	< 0.0150 U	< 0.0150 U	0.0254	0.0066 J	< 0.0150 U
Magnesium - Total	mg/l	2.50 J	2.56 J	2.48 J	5.69	5.56	2.79 J	3.09 J	3.94	2.90	2.60
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0286	0.0264	0.0022 J	0.0032 J	0.0106	0.0024 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0491	0.0463	< 0.0050 U	0.0055 J	0.0215	0.0047 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	23.5	24.0	23.4	54.6	46.9	26.7	28.4	37.4	27.8	24.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 1.1 UJ	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 1.1 UJ	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 1.1 UJ	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 1.1 UJ	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.23 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.51 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.51 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	0.029 J	< 0.051 U	< 0.051 U	0.91 J	0.012 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.27 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	0.013 J	< 0.051 U	< 0.051 U	0.48 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.60 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.23 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.64 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.22 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.33 J	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Naphthalene - Total	ug/l	0.22	0.26	0.25	< 1.1 UJ	< 0.055 U	0.13	0.096	< 0.051 U	< 0.060 U	0.27 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 1.1 UJ	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.060 U	< 0.051 UJ
Pyrene - Total	ug/l	0.028 J	< 0.051 U	< 0.051 U	0.72 J	< 0.055 U	< 0.051 U	< 0.051 U	0.12	0.38	< 0.051 UJ
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/6/2013	7/7/2013	7/7/2013	7/8/2013	7/8/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-006(0.5-1.0)070613	WS-006(SURFACE)070713	WS-006(0.5-1.0)070713	WS-006(SURFACE)070813	WS-006(0.5-1.0)070813	WS-006(SURFACE)070913	WS-006(0.5-1.0)070913	WS-006(SURFACE)071013	WS-006(0.5-1.0)071013	WS-006(SURFACE)071113
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	2.3 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	14 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.3 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	22	0.2 J	< 0.5 U	< 0.5 U	7.4	6.5	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	15	0.2 J	< 0.5 U	< 0.5 U	0.9	0.8	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/11/2013	7/12/2013	7/12/2013	7/13/2013	7/13/2013	7/14/2013	7/14/2013	7/15/2013	7/16/2013	7/17/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)071113	WS-006(SURFACE)071213	WS-006(0.5-1.0)071213	WS-006(SURFACE)071313	WS-006(0.5-1.0)071313	WS-006(SURFACE)071413	WS-006(0.5-1.0)071413	WS-006(0.5-1.0)071513	WS-006(0.5-1.0)071613	WS-006(0.5-1.0)071713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	89	89	70	70	75	75	87	86	85
Dissolved Oxygen	mg/l	1.67	2.86	2.86	9.92	9.92	4.75	4.75	7.39	7.38	4.71
pH	SU	6.54	6.56	6.56	6.43	6.43	7	7	6.86	7.48	6.99
Temperature	deg C	29.08	28.87	28.87	32.42	32.42	29.66	29.66	31.69	32.94	33.26
Turbidity	NTU	16.2	58.5	58.5	185	185	26.8	26.8	35.4	69	36.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0068 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0057 UB	< 0.0070 UB	0.0073
Barium - Total	mg/L	0.0532	0.0522	0.0493	0.0324	0.0604	0.0339	0.0441	0.0337	0.0331	0.0515 J
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.66	6.02 J	6.26 J	5.92 J	6.09 J	6.02 J	6.11 J	5.68	5.90	5.58
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 UB
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.63	2.82 J	2.92 J	2.72 J	2.82 J	2.74 J	2.85 J	2.65	2.76	2.74
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0015 J	0.0017 J	< 0.0100 U	0.0017 J	0.0019 J	0.0021 J	< 0.0100 U	< 0.0100 U	< 0.0100 UB
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0021 J	< 0.0050 U	< 0.0050 U	0.0041 J
Other											
Hardness (as CaCO3)	mg/l	24.9	26.6	27.7	26.0	26.8	26.3	27.0	25.1	26.1	25.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	0.015 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	0.011 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	0.013 J	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	0.016 J
Fluorene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	0.022 J	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Naphthalene - Total	ug/l	0.18	0.13	0.15	0.089	0.089	0.18	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.24 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 UJ	< 0.052 U
Pyrene - Total	ug/l	0.021 J	0.093	0.36	0.091	< 0.053 U	0.079	0.039 J	< 0.053 U	< 0.051 UJ	0.22 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/11/2013	7/12/2013	7/12/2013	7/13/2013	7/13/2013	7/14/2013	7/14/2013	7/15/2013	7/16/2013	7/17/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)071113	WS-006(SURFACE)071213	WS-006(0.5-1.0)071213	WS-006(SURFACE)071313	WS-006(0.5-1.0)071313	WS-006(SURFACE)071413	WS-006(0.5-1.0)071413	WS-006(0.5-1.0)071513	WS-006(0.5-1.0)071613	WS-006(0.5-1.0)071713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.1 J	< 5.0 U	4.7 J	3.7 J	< 5.0 U	3.1 J	< 5.0 U	4.5 J	3.4 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	1	0.5	< 0.5 U	< 0.5 U	< 0.5 U	0.8	< 0.5 U	< 0.5 U	0.4 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/17/2013	7/18/2013	7/19/2013	7/19/2013	7/20/2013	7/21/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013	7/24/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-57-071713	WS-006(0.5-1.0)071813	WS-006(0.5-1.0)071913	DUP-WS-58-071913	WS-006(0.5-1.0)072013	WS-006(0.5-1.0)072113	DUP-WS-59-072113	WS-006(0.5-1.0)072213	WS-006(0.5-1.0)072313	DUP-WS-60-072313	WS-006(0.5-1.0)072413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	NA	100	93	NA	88	83	NA	82	84	NA	74
Dissolved Oxygen	mg/l	NA	5.5	3.53	NA	2.77	3.96	NA	5	5.18	NA	3.99
pH	SU	NA	7.31	7.12	NA	6.81	7.06	NA	7.18	7	NA	6.74
Temperature	deg C	NA	33.06	31.38	NA	29.98	30.11	NA	30.74	31.95	NA	27.08
Turbidity	NTU	NA	37.2	27	NA	32.8	28.5	NA	35.3	34.6	NA	23.8
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0111 J	0.0136 J	0.0140 J	0.0601	< 0.0200 U	0.0316	0.0073 J	0.0120 J	0.0096 J	0.0119 J	0.0103 J
Barium - Dissolved	mg/l	0.0221	0.0166	0.0300	0.0224	< 0.0170 UB	0.0194	0.0190	0.0210	0.0245	0.0222	0.0217
Barium - Total	mg/L	0.133 J	0.122	0.130 J	0.797 J	0.0363	0.342 J	0.0453 J	0.0840	0.178	0.197	0.172
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.29	6.57	6.87 J	19.0 J	5.92 J	11.5 J	6.14 J	6.05	6.91	7.35	6.80 J
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 UB	0.0185	0.0150 J	0.0978 J	< 0.0150 U	< 0.0470 UB	< 0.0150 U	0.0056 J	0.0232	0.0233	0.0189
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0144 J	0.0191	0.0158 J	0.126 J	< 0.0150 U	0.0636 J	< 0.0150 UJ	0.0067 J	0.0264	0.0312	0.0266
Magnesium - Total	mg/l	3.94	4.80 J	4.26 J	13.6 J	2.80 J	8.14 J	2.87 J	3.15 J	5.34	5.23	4.83 J
Mercury - Dissolved	mg/l	0.000081 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00017 J	< 0.00020 U	0.000080 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 UB	0.0119	0.0095 J	0.0679 J	< 0.0100 U	< 0.0303 UB	< 0.0100 U	0.0038 J	0.0147	0.0153	0.0138
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0232	0.0326	0.0266 J	0.182 J	< 0.0050 U	0.0867 J	< 0.0050 UJ	0.0095	0.0422	0.0448	0.0312
Other												
Hardness (as CaCO3)	mg/l	31.9	36.2	34.7 J	103 J	26.3	62.2	27.2	28.1	39.2	39.9	36.9
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.054 U	< 0.054 UJ	< 0.052 U	< 0.053 U	< 0.056 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.054 U	< 0.054 UJ	< 0.052 U	< 0.053 U	< 0.056 UJ
Benzo(b)Fluoranthene - Total	ug/l	0.017 J	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Chrysene - Total	ug/l	0.012 J	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Fluoranthene - Total	ug/l	0.018 J	0.013 J	0.013 J	< 0.052 U	0.012 J	< 0.051 U	0.014 J	< 0.054 U	< 0.052 U	< 0.053 U	0.015 J
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.21 UB	< 0.051 U	0.041 J	0.054	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U
Pyrene - Total	ug/l	0.59 J	0.25	0.065	0.098	0.064 J	0.021 J	0.046 J	0.014 J	0.047 J	< 0.053 U	0.23
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 UJ	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	5.3 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/17/2013	7/18/2013	7/19/2013	7/19/2013	7/20/2013	7/21/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013	7/24/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-57-071713	WS-006(0.5-1.0)071813	WS-006(0.5-1.0)071913	DUP-WS-58-071913	WS-006(0.5-1.0)072013	WS-006(0.5-1.0)072113	DUP-WS-59-072113	WS-006(0.5-1.0)072213	WS-006(0.5-1.0)072313	DUP-WS-60-072313	WS-006(0.5-1.0)072413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	4.9 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.8 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	0.4 J	1.4	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	0.2 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/25/2013	7/25/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013	7/29/2013	7/29/2013	7/30/2013	7/31/2013	7/31/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)072513	DUP-WS-61-072513	WS-006(0.5-1.0)072613	WS-006(0.5-1.0)072713	DUP-WS-62-072713	WS-006(0.5-1.0)072813	WS-006(0.5-1.0)072913	DUP-WS-63-072913	WS-006(0.5-1.0)073013	WS-006(0.5-1.0)073113	DUP-WS-64-073113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	79	NA	78	76	NA	83	73	NA	77	78	NA
Dissolved Oxygen	mg/l	5.5	NA	4.93	4.81	NA	5.57	5.03	NA	4.39	4.87	NA
pH	SU	7.06	NA	6.97	7.22	NA	7.24	7.35	NA	7.29	7.31	NA
Temperature	deg C	28.95	NA	26.6	27.51	NA	27.97	29.08	NA	28.3	28.32	NA
Turbidity	NTU	25	NA	24.3	23.3	NA	25.3	59.4	NA	37.9	46	NA
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0145 J	< 0.0200 U	< 0.0200 U	0.0186 J	0.0141 J	< 0.0200 U	0.0142 J	0.0091 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0171 UB	< 0.0188 UB	0.0177	< 0.0146 UB	< 0.0144 UB	0.0195	< 0.0228 UB	< 0.0232 UB	< 0.0163 UB	< 0.0147 UB	< 0.0155 UB
Barium - Total	mg/L	0.237 J	0.0791 J	0.0468	0.212	0.188	0.0325	0.165 J	0.108 J	0.0790	0.0393	0.0384
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	8.89 J	6.00 J	5.69	7.24 J	7.62 J	5.53 J	6.40	6.03	6.12	5.63	5.71
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0295	0.0061 J	0.0016 J	0.0357	0.0201	< 0.0150 U	0.0223	0.0114 J	0.0065 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0359	0.0064 J	< 0.0150 U	0.0373	0.0317	< 0.0150 U	0.0251	0.0157	0.0133 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	6.49 J	3.36 J	2.80	6.73 J	5.16 J	2.60 J	5.17 J	3.81	3.44 J	2.64	2.66
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0020 J	0.0020 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0195	0.0039 J	0.0036 J	0.0216	0.0141	0.0016 J	0.0132	0.0070 J	0.0044 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0548 J	0.0120 J	0.0037 J	0.0622 J	0.0452 J	< 0.0050 U	0.0414 J	0.0210 J	0.0145	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	48.9 J	28.8 J	25.7	45.8	40.3	24.5	37.3	30.8	29.5	24.9	25.2
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.053 UJ	< 0.057 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Fluoranthene - Total	ug/l	0.013 J	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.057 U	< 0.056 U
Pyrene - Total	ug/l	0.099	0.013 J	0.015 J	< 0.051 U	< 0.051 U	< 0.051 U	0.086	0.10	< 0.053 U	< 0.057 U	< 0.056 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	2.5 J	R	< 5.0 U	< 5.0 U	R	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		7/25/2013	7/25/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013	7/29/2013	7/29/2013	7/30/2013	7/31/2013	7/31/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)072513	DUP-WS-61-072513	WS-006(0.5-1.0)072613	WS-006(0.5-1.0)072713	DUP-WS-62-072713	WS-006(0.5-1.0)072813	WS-006(0.5-1.0)072913	DUP-WS-63-072913	WS-006(0.5-1.0)073013	WS-006(0.5-1.0)073113	DUP-WS-64-073113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.6 J	3.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.6 J	4.2 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/4/2013	8/4/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013	8/8/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)080113	WS-006(0.5-1.0)080213	DUP-WS-65-080213	WS-006(0.5-1.0)080313	WS-006(0.5-1.0)080413	DUP-WS-66-080413	WS-006(0.5-1.0)080513	WS-006(0.5-1.0)080613	DUP-WS-67-080613	WS-006(0.5-1.0)080713	WS-006(0.5-1.0)080813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	79	79	NA	81	80	NA	77	79	NA	83	83
Dissolved Oxygen	mg/l	3.74	5.76	NA	5.73	5.93	NA	3.42	3.67	NA	4.51	4.54
pH	SU	7.11	7.63	NA	7.81	7.46	NA	7.04	7.09	NA	7.17	7.17
Temperature	deg C	27.9	29.32	NA	30.51	29.5	NA	28.99	29.27	NA	30.59	30.96
Turbidity	NTU	33.3	70.3	NA	21.4	29.3	NA	27.7	24.1	NA	23.6	28.1
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	0.0083 J	0.0078 J	< 0.0200 U	0.0090 J	0.0084 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0183 UB	0.0190	0.0158	< 0.0132 UB	0.0116	0.0112	0.0137	0.0133	0.0126	0.0127	0.0122
Barium - Total	mg/L	0.0379	0.0392	0.0411	0.0305	0.0292	0.0286	0.0318	0.0313	0.0310	0.0310	0.0254
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.57	5.66	5.78	5.42	5.61	5.59	5.66	5.65	5.58	5.42	5.58
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0018 J	0.0021 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.61	2.70	2.77	2.59	2.67	2.68	2.64	2.61	2.59	2.49	2.58
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0018 J	0.0027 J	0.0029 J	0.0015 J	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	0.0022 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	0.0020 J	0.0026 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	24.7	25.3	25.8	24.2	25.0	25.0	25.0	24.9	24.6	23.8	24.5
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.038 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 UJ	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.059 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 UJ	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.059 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	R	< 5.0 U	2.1 J	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	2.7 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/4/2013	8/4/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013	8/8/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)080113	WS-006(0.5-1.0)080213	DUP-WS-65-080213	WS-006(0.5-1.0)080313	WS-006(0.5-1.0)080413	DUP-WS-66-080413	WS-006(0.5-1.0)080513	WS-006(0.5-1.0)080613	DUP-WS-67-080613	WS-006(0.5-1.0)080713	WS-006(0.5-1.0)080813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/8/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/15/2013	8/15/2013	8/16/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-68-080813	WS-006(0.5-1.0)080913	WS-006(0.5-1.0)081013	DUP-WS-69-081013	WS-006(0.5-1.0)081113	WS-006(0.5-1.0)081213	DUP-WS-70-081213	WS-006(0.5-1.0)081413	WS-006(0.5-1.0)081513	DUP-WS-71-081513	WS-006(0.5-1.0)081613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	NA	84	84	NA	80	80	NA	80	73	NA	75
Dissolved Oxygen	mg/l	NA	4.54	4.81	NA	4.15	3.19	NA	3.77	5.58	NA	7.1
pH	SU	NA	7.07	7.36	NA	7.13	7.03	NA	7.12	7.23	NA	8.08
Temperature	deg C	NA	30.32	30.26	NA	29.35	29.64	NA	26.65	25.35	NA	26.42
Turbidity	NTU	NA	20	25	NA	22.9	24.5	NA	21.6	27.4	NA	18.2
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0125	0.0117	0.0145	0.0161	0.0130	0.0149	0.0154	0.0137	0.0138	0.0139	< 0.0126 UB
Barium - Total	mg/L	0.0251	0.0285	0.0251	0.0252	0.0271	0.0337	0.0332	0.0504	0.0381	0.0359	0.0305
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.85	5.91	5.84	5.90	5.83	5.49	5.56	6.00	5.66	5.50	5.62
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.63	2.73	2.72	2.73	2.68	2.47	2.48	2.77	2.61	2.53	2.63
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000080 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	25.4	26.0	25.8	26.0	25.6	23.9	24.1	26.4	24.9	24.2	24.9
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Anthracene - Total	ug/l	< 0.059 U	< 0.053 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.059 U	< 0.053 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.054 U	< 0.055 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Chrysene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Fluorene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
Pyrene - Total	ug/l	< 0.059 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.051 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	2.9 J	1.5 J	< 5.0 UJ	2.4 J	2.2 J	< 5.0 UJ	1.6 J	< 5.0 U	< 5.0 UJ
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/8/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/15/2013	8/15/2013	8/16/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-68-080813	WS-006(0.5-1.0)080913	WS-006(0.5-1.0)081013	DUP-WS-69-081013	WS-006(0.5-1.0)081113	WS-006(0.5-1.0)081213	DUP-WS-70-081213	WS-006(0.5-1.0)081413	WS-006(0.5-1.0)081513	DUP-WS-71-081513	WS-006(0.5-1.0)081613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/17/2013	8/17/2013	8/18/2013	8/19/2013	8/19/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/23/2013	8/23/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)081713	DUP-WS-72-081713	WS-006(0.5-1.0)081813	WS-006(0.5-1.0)081913	DUP-WS-73-081913	WS-006(0.5-1.0)082013	WS-006(0.5-1.0)082113	DUP-WS-74-082113	WS-006(0.5-1.0)082213	WS-006(0.5-1.0)082313	DUP-WS-75-082313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	75	NA	75	75	NA	80	77	NA	81	83	NA
Dissolved Oxygen	mg/l	5.43	NA	5.42	5.11	NA	7.22	5.77	NA	3.67	3.65	NA
pH	SU	7.17	NA	7.16	7.08	NA	8.37	7.63	NA	7.03	7.43	NA
Temperature	deg C	24.94	NA	25.85	26.52	NA	28.54	28.73	NA	29.64	31.14	NA
Turbidity	NTU	18	NA	15.9	18.6	NA	16.4	14.7	NA	18.3	21	NA
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	0.0090 J	< 0.0200 U	0.0069 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0073 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0080 J	0.0078 J	0.0071 J	< 0.0200 U	0.0081 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0171	0.0160	0.0159	< 0.0153 UB	< 0.0155 UB	0.0109	< 0.0111 UB	< 0.0108 UB	0.0152	0.0098	0.0091
Barium - Total	mg/L	0.0324	0.0327	0.0354	0.0329	0.0321	< 0.0235 UB	< 0.0258 UB	< 0.0259 UB	0.0435	0.0229	0.0205
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.73	5.71	5.92	5.75	5.65	5.47	5.66	5.72	5.93	5.74	5.62
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.64	2.64	2.77	2.70	2.66	2.57	2.65	2.69	2.80	2.68	2.63
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	25.2	25.1	26.2	25.5	25.0	24.2	25.0	25.4	26.3	25.4	24.9
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 UJ	< 0.051 U	< 0.055 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 UJ	< 0.051 U	< 0.055 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ
Naphthalene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.057 U	< 0.051 U	< 0.051 U	0.036 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 U	< 5.0 UJ	< 5.0 U	2.5 J	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UJ	1.5 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/17/2013	8/17/2013	8/18/2013	8/19/2013	8/19/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/23/2013	8/23/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)081713	DUP-WS-72-081713	WS-006(0.5-1.0)081813	WS-006(0.5-1.0)081913	DUP-WS-73-081913	WS-006(0.5-1.0)082013	WS-006(0.5-1.0)082113	DUP-WS-74-082113	WS-006(0.5-1.0)082213	WS-006(0.5-1.0)082313	DUP-WS-75-082313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/24/2013	8/25/2013	8/25/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/29/2013	8/29/2013	8/30/2013	8/31/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)082413	WS-006(0.5-1.0)082513	DUP-WS-76-082513	WS-006(0.5-1.0)082613	WS-006(0.5-1.0)082713	DUP-WS-77-082713	WS-006(0.5-1.0)082813	WS-006(0.5-1.0)082913	DUP-WS-79-082913	WS-006(0.5-1.0)083013	WS-006(0.5-1.0)083113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	98	104	NA	98	99	NA	68	70	NA	71	70
Dissolved Oxygen	mg/l	4.84	3.5	NA	5.33	5.28	NA	5.62	3.1	NA	3.77	3.65
pH	SU	7	NA	NA	NA	NA	NA	8.16	7.75	NA	7.71	7.65
Temperature	deg C	29.54	29.91	NA	30.57	29.87	NA	30.54	29.7	NA	30.53	30.49
Turbidity	NTU	NA	NA	NA	NA	NA	NA	15.5	7	NA	8	7.6
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.010 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0070 J	0.0078 J	< 0.0200 U	< 0.0200 U	0.0068 J	0.0098 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0125	0.0075	0.0081	0.0072	0.0110	0.0116	0.0086	0.0176	0.0180	0.0163	0.0225
Barium - Total	mg/L	0.0279	0.0305	0.0295	0.0195	0.0309	0.0323	0.0513	0.0462	0.0477	0.0511	0.0405
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.96	6.20	6.12	6.04	6.29	6.43	6.59	6.51	6.65	6.70	6.63
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.80	2.87	2.83	2.77	2.88	2.95	2.97	2.93	2.98	3.03	2.98
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	26.4	27.3	26.9	26.5	27.6	28.2	28.7	28.3	28.9	29.2	28.8
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 UJ	< 0.054 U	< 0.051 U	< 0.051 UJ	< 0.053 U	< 0.053 U	R	< 0.051 U	< 0.052 U	< 0.053 UJ	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 UJ	< 0.054 U	< 0.051 U	< 0.051 UJ	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.052 U	< 0.053 UJ	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.054 UJ	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UJ	1.6 J	< 5.0 U	< 5.0 UJ	1.5 J	< 5.0 U	< 5.0 UJ	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/24/2013	8/25/2013	8/25/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/29/2013	8/29/2013	8/30/2013	8/31/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)082413	WS-006(0.5-1.0)082513	DUP-WS-76-082513	WS-006(0.5-1.0)082613	WS-006(0.5-1.0)082713	DUP-WS-77-082713	WS-006(0.5-1.0)082813	WS-006(0.5-1.0)082913	DUP-WS-79-082913	WS-006(0.5-1.0)083013	WS-006(0.5-1.0)083113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	3.3 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/31/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/4/2013	9/4/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-80-083113	WS-006(0.5-1.0)090113	WS-006(0.5-1.0)090213	DUP-WS-81-090213	WS-006(0.5-1.0)090313	WS-006(0.5-1.0)090413	DUP-WS-82-090413	WS-006(0.5-1.0)090513	WS-006(0.5-1.0)090613	DUP-WS-83-090613	WS-006(0.5-1.0)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	NA	74	74	NA	73	74	NA	74	74	NA	74
Dissolved Oxygen	mg/l	NA	1.98	2.57	NA	3.32	3.86	NA	3.72	4.57	NA	4.11
pH	SU	NA	7.54	8.01	NA	8.11	8.2	NA	8	8.2	NA	8.16
Temperature	deg C	NA	29.84	29.42	NA	29.09	29.34	NA	29.48	29.22	NA	29.11
Turbidity	NTU	NA	7.3	7.7	NA	8.3	11	NA	8.2	15.4	NA	14.5
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	0.0069 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0229	0.0404	0.0158	0.0228	0.0129	0.0087	0.0086	0.0151	0.0123	0.0129	0.0274
Barium - Total	mg/L	0.0514	0.159	0.0720	0.0665	0.0766	0.0764	0.0724	0.0728	0.0683	0.0678	0.0595
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 UJ	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.66	6.80	6.88	6.70	7.07	6.94	6.85	7.10	7.02	6.86	6.98
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.99	2.98	3.15	3.06	3.14	3.08	3.05	3.17	3.11	3.05	3.12
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	29.0	29.3	30.2	29.3	30.6	30.0	29.7	30.8	30.4	29.7	30.3
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	R	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	R	< 0.053 U	< 0.056 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	R	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.053 U	< 0.056 U	< 0.052 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.053 U	< 0.056 U	< 0.052 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.7 J	1.6 J	< 5.0 U	< 5.0 U	R	< 5.0 U	1.7 J	< 5.0 UJ	3.1 J	< 5.0 U	< 5.0 UJ
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		8/31/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/4/2013	9/4/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-80-083113	WS-006(0.5-1.0)090113	WS-006(0.5-1.0)090213	DUP-WS-81-090213	WS-006(0.5-1.0)090313	WS-006(0.5-1.0)090413	DUP-WS-82-090413	WS-006(0.5-1.0)090513	WS-006(0.5-1.0)090613	DUP-WS-83-090613	WS-006(0.5-1.0)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	3.8 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/8/2013	9/8/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/14/2013	9/14/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)090813	DUP-WS-84-090813	WS-006(0.5-1.0)090913	WS-006(0.5-1.0)091013	DUP-WS-85-091013	WS-006(0.5-1.0)091113	WS-006(0.5-1.0)091213	DUP-WS-86-091213	WS-006(0.5-1.0)091313	WS-006(0.5-1.0)091413	DUP-WS-87-091413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	74	NA	76	75	NA	74	74	NA	73	73	NA
Dissolved Oxygen	mg/l	4.84	NA	3.54	2.26	NA	2.31	3.02	NA	3.51	3.75	NA
pH	SU	7.62	NA	7.46	7.44	NA	7.36	7.5	NA	7.64	7.8	NA
Temperature	deg C	29.43	NA	29.55	29.06	NA	29.13	29.21	NA	28.07	26.3	NA
Turbidity	NTU	8.4	NA	12.1	5.6	NA	6.1	8.4	NA	8.7	9.3	NA
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 UB	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0072 J	0.0083 J	0.0078 J	0.0071 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0168	0.0141	0.0265	0.0152	0.0154	< 0.0248 UB	0.0212	0.0246	0.0164	0.0244	0.0262
Barium - Total	mg/L	0.0595	0.0592	0.173	0.118	0.117	0.0710	0.0534	0.0544	0.0521	0.0733	0.0721
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.07	6.92	7.35	7.04	7.09	7.26	6.96	7.34	6.99	7.09	6.96
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.18	3.10	3.30	3.12	3.14	3.24	3.11	3.22	3.15	3.25	3.15
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	30.7	30.0	31.9	30.4	30.6	31.5	30.2	31.6	30.4	31.1	30.3
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.055 UJ	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.055 UJ	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.6 J	< 5.0 U	R	2.2 J	1.5 J	< 5.0 UJ	2.6 J	1.6 J	< 5.0 UBJ	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/8/2013	9/8/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/14/2013	9/14/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)090813	DUP-WS-84-090813	WS-006(0.5-1.0)090913	WS-006(0.5-1.0)091013	DUP-WS-85-091013	WS-006(0.5-1.0)091113	WS-006(0.5-1.0)091213	DUP-WS-86-091213	WS-006(0.5-1.0)091313	WS-006(0.5-1.0)091413	DUP-WS-87-091413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/15/2013	9/16/2013	9/16/2013	9/17/2013	9/18/2013	9/18/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/22/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)091513	WS-006(0.5-1.0)091613	DUP-WS-88-091613	WS-006(0.5-1.0)091713	WS-006(0.5-1.0)091813	DUP-WS-89-091813	WS-006(0.5-1.0)091913	WS-006(0.5-1.0)092013	DUP-WS-90-092013	WS-006(0.5-1.0)092113	WS-006(0.5-1.0)092213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	73	73	NA	73	74	NA	73	73	NA	74	73
Dissolved Oxygen	mg/l	3.7	4.48	NA	3.84	3.55	NA	3.7	3.72	NA	3.13	3.49
pH	SU	7.76	8.49	NA	8.28	8.26	NA	7.74	7.8	NA	7.45	7.61
Temperature	deg C	26.5	26.21	NA	26.39	27.6	NA	27.1	26.31	NA	24.37	24
Turbidity	NTU	9.6	21.8	NA	10.3	10.8	NA	10.4	9.1	NA	25.1	14.1
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0077 J	< 0.0200 U	< 0.0200 U	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0079 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0163	0.0204	0.0196	0.0210	0.0207	0.0204	0.0170	< 0.0214 UB	< 0.0217 UB	0.0233	0.0188
Barium - Total	mg/L	0.0494	0.0459	0.0442	0.0453	0.0374	0.0377	0.0466	0.0743	0.0725	0.0596	0.0477
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.04	6.84	6.75	6.80	6.80	6.74	6.92	6.96	6.87	7.03	6.83
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.23	3.12	3.09	3.14	3.09	3.04	3.12	3.17	3.12	3.27	3.13
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0022 J	0.0022 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	30.9	29.9	29.6	29.9	29.7	29.4	30.1	30.4	30.0	31.0	29.9
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	0.012 J
Acenaphthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Anthracene - Total	ug/l	< 0.053 UJ	< 0.050 U	< 0.051 U	< 0.051 UJ	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.057 U	< 0.053 U	< 0.051 UJ	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 UJ	< 0.050 U	< 0.051 U	< 0.051 UJ	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.057 U	< 0.053 U	< 0.051 UJ	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Chrysene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Fluorene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
Pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.057 U	< 0.053 U	< 0.051 U	< 0.056 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UB	< 5.0 U	R	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/15/2013	9/16/2013	9/16/2013	9/17/2013	9/18/2013	9/18/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/22/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)091513	WS-006(0.5-1.0)091613	DUP-WS-88-091613	WS-006(0.5-1.0)091713	WS-006(0.5-1.0)091813	DUP-WS-89-091813	WS-006(0.5-1.0)091913	WS-006(0.5-1.0)092013	DUP-WS-90-092013	WS-006(0.5-1.0)092113	WS-006(0.5-1.0)092213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/22/2013	9/23/2013	9/24/2013	9/24/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013	9/28/2013	9/28/2013	9/29/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-091-092213	WS-006(0.5-1.0)092313	WS-006(0.5-1.0)092413	DUP-WS-92-092413	WS-006(0.5-1.0)092513	WS-006(0.5-1.0)092613	DUP-WS-93-092613	WS-006(0.5-1.0)092713	WS-006(0.5-1.0)092813	DUP-WS-94-092813	WS-006(0.5-1.0)092913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	NA	72	72	NA	72	72	NA	73	74	NA	73
Dissolved Oxygen	mg/l	NA	5.73	6.04	NA	3.77	4.27	NA	1.73	2.95	NA	3.16
pH	SU	NA	8.46	9.31	NA	7.26	8.35	NA	7.65	7.82	NA	7
Temperature	deg C	NA	23.8	24.52	NA	24.11	24.47	NA	25.36	25.59	NA	26
Turbidity	NTU	NA	11.7	15.1	NA	11.6	16.9	NA	15.1	12.6	NA	14.7
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0191	0.0179	0.0158	0.0161	0.0176	0.0204 J	0.0315 J	0.0230	0.0240	0.0257	0.0177
Barium - Total	mg/L	0.0476	0.0441	0.0377	0.0369	0.0543	0.0431	0.0445	0.0434	0.0438	0.0430	0.0487
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.09	6.98	6.59	6.60	7.10	6.75	6.80	6.43	6.69	6.85	6.64
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.24	3.22	3.03	3.06	3.24	3.15	3.19	3.05	3.13	3.19	3.10
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000077 J
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0027 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	31.1	30.7	28.9	29.1	31.1	29.8	30.1	28.6	29.6	30.2	29.3
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 UJ	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.053 U	< 0.051 U	< 0.051 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 UJ	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.053 U	< 0.051 U	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UJ
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	0.032 J	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UBJ	< 5.0 UB	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/22/2013	9/23/2013	9/24/2013	9/24/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013	9/28/2013	9/28/2013	9/29/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-091-092213	WS-006(0.5-1.0)092313	WS-006(0.5-1.0)092413	DUP-WS-92-092413	WS-006(0.5-1.0)092513	WS-006(0.5-1.0)092613	DUP-WS-93-092613	WS-006(0.5-1.0)092713	WS-006(0.5-1.0)092813	DUP-WS-94-092813	WS-006(0.5-1.0)092913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/30/2013	9/30/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/4/2013	10/4/2013	10/5/2013	10/6/2013	10/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)093013	DUP-WS-95-093013	WS-006(0.5-1.0)100113	WS-006(0.5-1.0)100213	DUP-WS-96-100213	WS-006(0.5-1.0)100313	WS-006(0.5-1.0)100413	DUP-WS-97-100413	WS-006(0.5-1.0)100513	WS-006(0.5-1.0)100613	DUP-WS-98-100613
Validation Level		Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	73	NA	72	73	NA	73	73	NA	73	NA	NA
Dissolved Oxygen	mg/l	2.84	NA	2.83	2.96	NA	2.56	2.43	NA	2.47	NA	NA
pH	SU	7.65	NA	7.43	7.72	NA	7.75	7.57	NA	7.61	NA	NA
Temperature	deg C	25.09	NA	25.62	25.36	NA	25.29	25.56	NA	25.36	NA	NA
Turbidity	NTU	47	NA	10.1	8.8	NA	9	9.6	NA	9.3	NA	NA
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0197 UB	< 0.0226 UB	0.0309	0.0200	0.0198	0.0239	0.0202	0.0200	0.0218	0.0190	0.0193
Barium - Total	mg/L	0.0408	0.0421	0.0403	0.0430	0.0436	0.0481	0.0486	0.0455	0.0561	0.0701	0.0703
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.54	6.78	6.35	6.59	6.72	6.68	6.61	6.67	6.34	6.37	6.51
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.04	3.14	2.94	3.08	3.14	3.16	3.11	3.11	2.99	3.00	3.07
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0025 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	28.9	29.9	28.0	29.1	29.7	29.7	29.3	29.5	28.1	28.2	28.9
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 UJ	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	0.10	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.059 U	< 0.060 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	0.013 J	< 0.051 U	< 0.052 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.8 J	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

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Daily Surface Water Sampling Data

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ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		9/30/2013	9/30/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/4/2013	10/4/2013	10/5/2013	10/6/2013	10/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)093013	DUP-WS-95-093013	WS-006(0.5-1.0)100113	WS-006(0.5-1.0)100213	DUP-WS-96-100213	WS-006(0.5-1.0)100313	WS-006(0.5-1.0)100413	DUP-WS-97-100413	WS-006(0.5-1.0)100513	WS-006(0.5-1.0)100613	DUP-WS-98-100613
Validation Level		Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/7/2013	10/8/2013	10/8/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/14/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)100713	WS-006(0.5-1.0)100813	DUP-WS-99-100813	WS-006(0.5-1.0)100913	WS-006(0.5-1.0)101013	DUP-WS-100-101013	WS-006(0.5-1.0)101113	WS-006(0.5-1.0)101213	DUP-WS-101-101213	WS-006(0.5-1.0)101313	WS-006(0.5-1.0)101413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	NA	NA	NA	82	86	NA	82	82	NA	81	80
Dissolved Oxygen	mg/l	NA	NA	NA	8.35	7.94	NA	6.75	3.78	NA	4.32	4.82
pH	SU	NA	NA	NA	7.26	7.46	NA	7.41	6.57	NA	6.96	7.27
Temperature	deg C	NA	NA	NA	20.15	21.46	NA	21.8	21.93	NA	22.22	21.25
Turbidity	NTU	NA	NA	NA	23.9	23	NA	25.1	24	NA	19.5	24.6
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0229	0.0211	0.0202	0.0186	0.0198	0.0192	0.0177	0.0201	0.0199	0.0171	0.0192
Barium - Total	mg/L	0.0494	0.0424	0.0413	0.0376	0.0405	0.0373	0.0327	0.0418	0.0380	0.0326	0.0345
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.06	6.11	6.12	5.97	5.73	5.77	5.82	5.67	5.57	5.36	5.36
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.90	2.92	2.93	2.87	2.83	2.82	2.79	2.73	2.68	2.60	2.66
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	27.1	27.3	27.3	26.7	26.0	26.0	26.0	25.4	25.0	24.1	24.4
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 UJ	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.055 U	< 0.050 UJ	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.012 J	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.050 J	0.056	< 0.051 U	< 0.051 UB	< 0.055 U	< 0.050 U	< 0.051 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	R	1.6 J	< 5.0 U	R	< 5.0 U	1.6 J	3.3 J	< 5.0 U	2.0 J	R	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/7/2013	10/8/2013	10/8/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/14/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)100713	WS-006(0.5-1.0)100813	DUP-WS-99-100813	WS-006(0.5-1.0)100913	WS-006(0.5-1.0)101013	DUP-WS-100-101013	WS-006(0.5-1.0)101113	WS-006(0.5-1.0)101213	DUP-WS-101-101213	WS-006(0.5-1.0)101313	WS-006(0.5-1.0)101413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/18/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-102-101413	WS-006(0.5-1.0)101513	WS-006(0.5-1.0)101613	WS-006(0.5-1.0)101713	WS-006(0.5-1.0)101813	DUP-WS-104-101813	WS-006(0.5-1.0)101913	WS-006(0.5-1.0)102013	DUP-WS-105-102013	WS-006(0.5-1.0)102113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	79	79	78	78	NA	79	77	NA	75
Dissolved Oxygen	mg/l	NA	4.76	3.44	4.41	4.46	NA	4.94	5.79	NA	4.76
pH	SU	NA	8.1	7.01	6.75	6.89	NA	6.9	6.94	NA	6.73
Temperature	deg C	NA	21.26	20.04	19.24	18.83	NA	18.1	17.44	NA	17.52
Turbidity	NTU	NA	23.1	19.8	44.3	23.7	NA	52.6	27.7	NA	21.9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0072 J	0.0075 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0225	0.0189	0.0185	0.0184	0.0175	0.0179	0.0176	0.0171	0.0175	0.0166
Barium - Total	mg/L	0.0395	0.0359	0.0329	0.0374	0.0325	0.0315	0.0387	0.0301	0.0306	0.0302
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.33	5.36	4.98	5.27	4.86	4.80	4.98	4.96	4.87	4.67
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.70	2.67	2.45	2.56	2.42	2.39	2.48	2.46	2.44	2.32
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0024 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.4	24.4	22.5	23.7	22.1	21.8	22.7	22.5	22.2	21.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.050 U	< 0.051 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.050 U	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 UB	< 0.051 U	< 0.052 UB	< 0.052 U	< 0.051 U	0.048 J	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 UJ	2.2 J	4.2 J	2.0 J	< 5.0 U	< 5.0 UJ	< 5.0 U	3.5 J	< 5.0 UJ
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/18/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-102-101413	WS-006(0.5-1.0)101513	WS-006(0.5-1.0)101613	WS-006(0.5-1.0)101713	WS-006(0.5-1.0)101813	DUP-WS-104-101813	WS-006(0.5-1.0)101913	WS-006(0.5-1.0)102013	DUP-WS-105-102013	WS-006(0.5-1.0)102113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/22/2013	10/22/2013	10/23/2013	10/24/2013	10/24/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013	10/28/2013	10/28/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)102213	DUP-WS-106-102213	WS-006(0.5-1.0)102313	WS-006(0.5-1.0)102413	DUP-WS-107-102413	WS-006(0.5-1.0)102513	WS-006(0.5-1.0)102613	DUP-WS-108-102613	WS-006(0.5-1.0)102713	WS-006(0.5-1.0)102813	DUP-WS-109-102813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	76	NA	77	76	NA	76	76	NA	76	75	NA
Dissolved Oxygen	mg/l	6.46	NA	4.99	6.19	NA	6.04	6.32	NA	5.86	4.72	NA
pH	SU	6.75	NA	6.3	6.68	NA	6.71	6.86	NA	6.91	6.5	NA
Temperature	deg C	16.94	NA	15.86	15.72	NA	14.57	15.12	NA	15.22	15.31	NA
Turbidity	NTU	21.1	NA	52.6	43.1	NA	55.1	34.4	NA	41.2	21.2	NA
Metals												
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	0.0077 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0179	0.0177	0.0176	0.0157	0.0160	0.0161	0.0158	0.0164	0.0169	0.0178	0.0175
Barium - Total	mg/L	0.0303	0.0306	0.0279	0.0453	0.0424	0.0262	0.0273	0.0280	0.0286	0.0266	0.0271
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.76	4.83	4.62	4.58	4.43	4.38	4.71	4.65	4.31	4.40	4.46
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0052 J	0.0052 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.37	2.40	2.30	2.38	2.29	2.20	2.32	2.31	2.23	2.22	2.28
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	0.0016 J	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	0.0017 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0027 J	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other												
Hardness (as CaCO3)	mg/l	21.6	21.9	21.0	21.2	20.5	20.0	21.3	21.1	19.9	20.1	20.5
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	0.016 J	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.052 U
TPH												
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	1.5 J	< 5.0 UJ	< 5.0 U	< 5.0 U	4.0 J	< 5.0 U	2.4 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		10/22/2013	10/22/2013	10/23/2013	10/24/2013	10/24/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013	10/28/2013	10/28/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)102213	DUP-WS-106-102213	WS-006(0.5-1.0)102313	WS-006(0.5-1.0)102413	DUP-WS-107-102413	WS-006(0.5-1.0)102513	WS-006(0.5-1.0)102613	DUP-WS-108-102613	WS-006(0.5-1.0)102713	WS-006(0.5-1.0)102813	DUP-WS-109-102813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		10/29/2013	10/30/2013	10/30/2013	10/31/2013	4/4/2013	4/4/2013	4/5/2013	4/5/2013	4/6/2013	4/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)102913	WS-006(0.5-1.0)103013	DUP-WS-110-103013	WS-006(0.5-1.0)103113	RRS44SW7	RRS44SW7B	WS-007-04052013(SURFACE)	WS-007-04052013(0.5-1.0)	WS-007-04062013(SURFACE)	WS-007-04062013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	74	NA	80	NA	NA	61.5	61.5	49	49
Dissolved Oxygen	mg/l	4.23	4.07	NA	4.14	NA	NA	5.08	5.08	6.88	6.88
pH	SU	6.71	6.84	NA	6.67	NA	NA	6	6	6.82	6.82
Temperature	deg C	16.76	16.6	NA	17.22	NA	NA	11	11	18.75	18.75
Turbidity	NTU	20.3	25.3	NA	33.6	NA	NA	29.5	29.5	22.3	22.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0100 U	< 0.0100 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0078 J
Barium - Dissolved	mg/l	0.0183	0.0183	0.0184	0.0192	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0275	0.0297	0.0298	0.0319	0.0326	0.146	0.0280	0.0307	0.0266	0.0268
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.32	4.15	4.15	4.42	NA	NA	3.27	3.33	3.13	3.33
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0050 U	0.018	0.0029 J	0.0032 J	0.0019 J	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0050 J	< 0.0150 U	< 0.0150 U	0.0056 J	< 0.0050 U	0.0388	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.21	2.11	2.10	2.25	NA	NA	1.74	1.73	1.50	1.56
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0050 U	0.0174	0.0021 J	0.0017 J	0.0021 J	0.0018 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0150 U	< 0.0150 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0070 U	< 0.0070 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0100 U	0.022	0.0016 J	0.0034 J	0.0020 J	0.0024 J
Other											
Hardness (as CaCO3)	mg/l	19.9	19.1	19.0	20.3	NA	NA	15.3	15.5	14.0	14.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	NA	NA	0.39	0.50	0.12	0.12
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	NA	NA	0.27	0.33	0.078	0.081
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	0.041 J	0.038 J	0.020 J	0.020 J
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.054 U
Anthracene - Total	ug/l	< 0.052 UJ	< 0.051 U	< 0.052 U	< 0.050 UJ	< 0.10 U	< 0.10 U	0.027 J	0.021 J	< 0.050 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 UJ	< 0.051 U	< 0.052 U	< 0.050 UJ	< 0.10 U	< 0.10 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	0.012 J	0.013 J	< 0.050 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.054 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	0.021 J	0.016 J	0.013 J	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	0.13	0.067	0.039 J	0.024 J
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	0.065	0.070	0.048 J	0.047 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.50 U	< 0.50 U	0.16	0.19	0.042 J	0.042 J
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.50 U	< 0.50 U	0.085	0.072	0.048 J	0.045 J
Pyrene - Total	ug/l	< 0.052 UJ	< 0.051 U	< 0.052 U	< 0.050 U	< 0.10 U	< 0.10 U	0.074	0.042 J	0.021 J	0.015 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UBJ	< 5.0 U	< 5.0 U	R	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.5 U	< 2.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		10/29/2013	10/30/2013	10/30/2013	10/31/2013	4/4/2013	4/4/2013	4/5/2013	4/5/2013	4/6/2013	4/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)102913	WS-006(0.5-1.0)103013	DUP-WS-110-103013	WS-006(0.5-1.0)103113	RRS44SW7	RRS44SW7B	WS-007-04052013(SURFACE)	WS-007-04052013(0.5-1.0)	WS-007-04062013(SURFACE)	WS-007-04062013(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	< 1.0 U	< 1.0 U	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	1.5	1.4	1.6	1.9	0.8	0.9
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	2	1.9	1.4	1.4	0.5 J	0.5 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	< 10.0 U	< 10.0 U	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	< 10.0 U	< 10.0 U	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	< 1.0 U	< 1.0 U	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	0.1 J	0.3 J	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	5.2	4.7	6.4	6.8	3.1	3.3

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/7/2013	4/7/2013	4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/10/2013	4/10/2013	4/11/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007-04072013(SURFACE)	WS-007-04072013(0.5-1.0)	WS-007(SURFACE)040813	WS-007(0.5-1.0)040813	WS-007(SURFACE)040913	WS-007(0.5-1.0)040913	WS-007(SURFACE)041013	WS-007(0.5-1.0)041013	WS-007(SURFACE)041113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	46	46	44	44	38	38	46	46	42
Dissolved Oxygen	mg/l	6.05	6.05	4.52	4.52	5.39	5.39	4.71	4.71	5.11
pH	SU	6.74	6.74	6.84	6.84	7.15	7.15	7.34	7.34	6.72
Temperature	deg C	20.58	20.58	19.44	19.44	24.04	24.04	23.4	23.4	16.49
Turbidity	NTU	14.9	14.9	62	62	13.4	13.4	11.8	11.8	79.3
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0314	0.0309	0.0278	0.0366	0.0231	0.0237	0.0238	0.0243	0.0800
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB
Calcium - Total	mg/l	3.30	3.35	3.50	3.84	3.32	3.39	3.40	3.44	4.50
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0028 J	0.0042 J	0.0017 J	0.0018 J	0.0018 J	0.0019 J	< 0.0150 U	< 0.0150 U	0.0082 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0053 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0096 J
Magnesium - Total	mg/l	1.62	1.67	1.64	1.75	1.58	1.63	1.61	1.56	2.60 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0029 J	0.0026 J	0.0024 J	0.0028 J	0.0032 J	0.0026 J	< 0.0100 UB	< 0.0100 UB	0.0062 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0033 J	0.0041 J	0.0035 J	0.0041 J	0.0020 J	0.0027 J	0.0028 J	0.0032 J	0.0135
Other										
Hardness (as CaCO3)	mg/l	14.9	15.3	15.5	16.8	14.8	15.2	15.1	15.0	21.9
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	0.068	0.048 J	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
2-Methylnaphthalene - Total	ug/l	0.038 J	0.026 J	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Acenaphthene - Total	ug/l	0.014 J	0.012 J	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Benzo(b)Fluoranthene - Total	ug/l	0.011 J	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	0.015 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Chrysene - Total	ug/l	0.011 J	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	0.020 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Fluoranthene - Total	ug/l	0.051 J	0.032 J	0.017 J	0.019 J	0.011 J	0.013 J	< 0.053 U	0.016 J	0.029 J
Fluorene - Total	ug/l	0.037 J	0.031 J	< 0.052 U	0.012 J	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Naphthalene - Total	ug/l	0.038 J	0.043 J	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Phenanthrene - Total	ug/l	0.034 J	< 0.053 U	< 0.052 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.058 UJ
Pyrene - Total	ug/l	0.035 J	0.017 J	< 0.052 U	< 0.056 U	0.013 J	0.012 J	< 0.053 U	0.018 J	0.025 J
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/7/2013	4/7/2013	4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/10/2013	4/10/2013	4/11/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007-04072013(SURFACE)	WS-007-04072013(0.5-1.0)	WS-007(SURFACE)040813	WS-007(0.5-1.0)040813	WS-007(SURFACE)040913	WS-007(0.5-1.0)040913	WS-007(SURFACE)041013	WS-007(0.5-1.0)041013	WS-007(SURFACE)041113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.7	0.8	0.3 J	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	3.4 J	< 5.0 U	< 5.0 U	3.4 J	< 5.0 U	< 5.0 U	3.6 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.3 J	0.2 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	2.0	2.0	0.8	0.7	0.2 J	0.2 J	< 0.5 U	< 0.5 U	0.4 J

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/11/2013	4/12/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013	4/14/2013	4/15/2013	4/15/2013	4/16/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)041113	WS-007(SURFACE)041213	WS-007(0.5-1.0)041213	WS-007(SURFACE)041313	WS-007(0.5-1.0)041313	WS-007(SURFACE)041413	WS-007(0.5-1.0)041413	WS-007(SURFACE)041513	WS-007(0.5-1.0)041513	WS-007(SURFACE)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	42	41	41	43	43	46	46	65	65	61
Dissolved Oxygen	mg/l	5.11	2.42	2.42	2.14	2.14	4.02	4.02	5.51	5.51	1.33
pH	SU	6.72	6.67	6.67	6.49	6.49	6.77	6.77	6.14	6.14	5.57
Temperature	deg C	16.49	20.49	20.49	17.25	17.25	19.65	19.65	19.42	19.42	22.14
Turbidity	NTU	79.3	231	231	110	110	103	103	26.8	26.8	337.2
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0787	0.0989	0.0976	0.0880	0.0938	0.0748	0.0677	0.0752	0.0870	0.131
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.20	4.05	4.11	3.75	3.94	3.80	3.72	3.83	4.00	4.69
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0080 J	0.010 J	0.0100 J	0.0111 J	0.0118 J	0.0076 J	0.0049 J	0.0080 J	0.0109 J	0.0181
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0062 J	0.0121 J	0.0112 J	0.0099 J	0.0094 J	0.0065 J	< 0.0150 U	< 0.0150 U	0.0053 J	0.0161
Magnesium - Total	mg/l	2.40 J	2.38	2.39	2.40	2.49	2.04 J	1.84 J	2.08	2.41	3.35
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	0.000085 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000074 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0058 J	0.0102	0.0093 J	0.0096 J	0.0099 J	0.0074 J	0.0058 J	0.0050 J	0.0073 J	0.0155
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0117	0.0165	0.0161	0.0160	0.0181	0.0113	0.0080	0.0101	0.0151	0.0264
Other											
Hardness (as CaCO3)	mg/l	20.4	19.9	20.1	19.2	20.1	17.9	16.9	18.1	19.9	25.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.057 UJ	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.023 J	< 0.050 UJ
2-Methylnaphthalene - Total	ug/l	< 0.057 UJ	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.020 J	< 0.050 UJ
Acenaphthene - Total	ug/l	< 0.057 UJ	0.017 J	0.017 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.014 J	< 0.050 UJ
Acenaphthylene - Total	ug/l	< 0.057 UJ	0.036 J	0.040 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.014 J	< 0.050 UJ
Anthracene - Total	ug/l	0.012 J	0.13 J	0.15 J	0.030 J	0.020 J	< 0.051 U	0.014 J	< 0.051 U	0.015 J	< 0.050 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.057 UJ	0.29 J	0.22 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.012 J	0.011 J
Benzo(a)Pyrene - Total	ug/l	< 0.057 UJ	0.085 J	0.070 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 UJ
Benzo(b)Fluoranthene - Total	ug/l	0.027 J	0.43 J	0.42 J	0.017 J	0.013 J	< 0.051 U	< 0.051 U	< 0.051 U	0.015 J	0.031 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.057 UJ	0.081	0.075	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.057 UJ	0.16 J	0.13 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 UJ
Chrysene - Total	ug/l	0.034 J	0.77 J	0.61 J	0.018 J	0.020 J	< 0.051 U	< 0.051 U	0.012 J	0.026 J	0.038 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.057 UJ	0.019 J	0.017 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 UJ
Fluoranthene - Total	ug/l	0.12 J	3.0 J	2.5 J	0.12 J	0.079 J	0.023 J	0.064 J	0.029 J	0.059	0.088 J
Fluorene - Total	ug/l	< 0.057 UJ	0.027 J	0.031 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.017 J	< 0.050 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.057 UJ	0.11	0.099	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 UJ
Naphthalene - Total	ug/l	< 0.057 UJ	0.034 J	0.043 J	0.051 J	< 0.051 U	< 0.051 U	< 0.051 U	0.046 J	0.052	< 0.050 UJ
Phenanthrene - Total	ug/l	< 0.057 UJ	0.64 J	0.71 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 UJ
Pyrene - Total	ug/l	0.065 J	2.0 J	1.7 J	0.091 J	0.071 J	0.029 J	0.060	0.031 J	0.058 J	0.082 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 UJ
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/11/2013	4/12/2013	4/12/2013	4/13/2013	4/13/2013	4/14/2013	4/14/2013	4/15/2013	4/15/2013	4/16/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)041113	WS-007(SURFACE)041213	WS-007(0.5-1.0)041213	WS-007(SURFACE)041313	WS-007(0.5-1.0)041313	WS-007(SURFACE)041413	WS-007(0.5-1.0)041413	WS-007(SURFACE)041513	WS-007(0.5-1.0)041513	WS-007(SURFACE)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J	3.4 J	< 5.0 U	< 5.0 U	5.3
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.7	0.1 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013	4/20/2013	4/21/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)041613	WS-007(SURFACE)041713	WS-007(0.5-1.0)041713	WS-007(SURFACE)041813	WS-007(0.5-1.0)041813	WS-007(SURFACE)041913	WS-007(0.5-1.0)041913	WS-007(SURFACE)042013	WS-007(0.5-1.0)042013	WS-007(SURFACE)042113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	61	45	45	970	970	52	52	55	55	52
Dissolved Oxygen	mg/l	1.33	2.29	2.29	1.53	1.53	1.16	1.16	0.4	0.4	0.56
pH	SU	5.57	5.54	5.54	6.03	6.03	6.33	6.33	5.68	5.68	6.33
Temperature	deg C	22.14	25.97	25.97	22.67	22.67	18.64	18.64	16.9	16.9	17.23
Turbidity	NTU	337.2	314	314	286	286	586	586	582	582	439
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0093 J	0.0096 J	< 0.0200 U	0.0073 J	< 0.0200 UB	< 0.0200 UB	0.0186 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.123	0.114	0.127	0.0839	0.160	0.172	0.201	0.280 J	0.271 J	0.256
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U
Calcium - Total	mg/l	4.87	4.78	5.33	6.17	5.41	6.39	6.63	6.79 J	6.54 J	6.13
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0151	0.0092 J	0.0127 J	0.0076 J	0.0203	0.0122 J	0.0182	0.0349	0.0311	0.0288
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0152	0.0121 J	0.0137 J	< 0.0150 U	0.0174	0.0161	0.0213	0.0284	0.0264	0.0301
Magnesium - Total	mg/l	3.01	2.56	2.90	2.57	3.72	3.26	3.91	5.50	5.07	5.04
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00013 J	0.00012 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0135	0.0085 J	0.0108	0.0069 J	0.0156	0.0129	0.0173	0.0288	0.0253	0.0270
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0218	0.0146	0.0189	0.0111	0.0308	0.0175	0.0246	0.0537	0.0480	0.0455
Other											
Hardness (as CaCO3)	mg/l	24.5	22.5	25.3	26.0	28.9	29.4	32.6	39.6	37.2	36.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 U	0.012 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	0.011 J	0.013 J	0.011 J	< 0.052 U	0.013 J	0.011 J	< 0.051 UJ
Acenaphthene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 U	< 0.052 U	0.011 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Acenaphthylene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	0.014 J	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Anthracene - Total	ug/l	0.014 J	< 0.051 UJ	0.021 J	< 0.053 U	< 0.052 U	< 0.052 U	0.015 J	0.026 J	< 0.051 U	0.014 J
Benzo(a)Anthracene - Total	ug/l	0.018 J	< 0.051 UJ	0.038 J	0.012 J	< 0.052 U	< 0.052 U	0.017 J	0.050 J	< 0.051 U	0.011 J
Benzo(a)Pyrene - Total	ug/l	0.012 J	< 0.051 UJ	0.022 J	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	0.026 J	< 0.051 U	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	0.044 J	0.012 J	0.10 J	0.024 J	0.012 J	0.013 J	0.032 J	0.11	0.015 J	0.023 J
Benzo(g,h,i)Perylene - Total	ug/l	0.011 J	< 0.051 UJ	0.022 J	0.012 J	< 0.052 U	< 0.052 U	0.011 J	0.022 J	< 0.051 U	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	0.015 J	< 0.051 UJ	0.030 J	0.011 J	< 0.052 U	< 0.052 U	0.012 J	0.035 J	< 0.051 U	< 0.051 UJ
Chrysene - Total	ug/l	0.052 J	< 0.051 UJ	0.11 J	0.022 J	< 0.052 U	0.023 J	0.047 J	0.12	0.022 J	0.048 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 UJ
Fluoranthene - Total	ug/l	0.15 J	0.029 J	0.25 J	0.032 J	0.019 J	0.024 J	0.090	0.35	0.045 J	0.13 J
Fluorene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	0.011 J	< 0.051 U	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.014 J	< 0.051 UJ	0.027 J	0.012 J	< 0.052 U	< 0.052 U	< 0.052 U	0.028 J	< 0.051 U	< 0.051 UJ
Naphthalene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.053 U	< 0.052 U	0.066	0.077	0.093	< 0.051 U	0.056 J
Phenanthrene - Total	ug/l	0.035 J	< 0.051 UJ	0.050 J	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	0.066	< 0.051 U	< 0.051 UJ
Pyrene - Total	ug/l	0.11 J	0.031 J	0.17 J	0.039 J	0.022 J	0.031 J	0.091	0.26	0.043 J	0.096 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/16/2013	4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013	4/20/2013	4/21/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)041613	WS-007(SURFACE)041713	WS-007(0.5-1.0)041713	WS-007(SURFACE)041813	WS-007(0.5-1.0)041813	WS-007(SURFACE)041913	WS-007(0.5-1.0)041913	WS-007(SURFACE)042013	WS-007(0.5-1.0)042013	WS-007(SURFACE)042113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.2 J	0.5 J	0.1 J
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	1.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	5.1	< 5.0 U	< 5.0 U	24	4.6 J	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	3.8 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.8	0.8	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/21/2013	4/21/2013	4/22/2013	4/22/2013	4/23/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013	4/25/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-DUP-10-042113	WS-007(0.5-1.0)042113	WS-007(SURFACE)042213	WS-007(0.5-1.0)042213	WS-007(SURFACE)042313	WS-007(0.5-1.0)042313	WS-007(SURFACE)042413	WS-007(0.5-1.0)042413	WS-007(SURFACE)042513	WS-007(0.5-1.0)042513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	52	175	175	175	175	218	218	203	203
Dissolved Oxygen	mg/l	NA	0.56	0	0	0.52	0.52	0	0	0.8	0.8
pH	SU	NA	6.33	5.2	5.2	5.29	5.29	6.14	6.14	6.38	6.38
Temperature	deg C	NA	17.23	21.33	21.33	20.03	20.03	18.18	18.18	17.31	17.31
Turbidity	NTU	NA	439	800	800	620	620	510	510	700	700
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0167 J	0.0164 J	0.0123 J	0.0176 J	0.0071 J	0.0073 J	0.010 J	0.0096 J	0.0115 J	0.0114 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.242	0.245	0.163	0.226	0.250	0.213	0.241	0.265	0.291	0.327
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00070 J	0.00074 J
Calcium - Total	mg/l	5.98	6.20	5.59	6.26	6.69 J	7.32 J	6.86	6.91	6.46	6.95
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0257	0.0282	0.0111 J	0.0286	0.0292	0.0187	0.0229	0.0245	0.0356	0.0383
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0277	0.0287	0.0135 J	0.0245	0.0308	0.0240	0.0266	0.0318	0.0393	0.0475
Magnesium - Total	mg/l	4.58	4.84	2.96	4.59	5.12	4.04	4.53	4.80	5.67	6.21
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0253	0.0269	0.0101	0.0218	0.0263	0.0186	0.0214	0.0233	0.0321	0.0353
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0408	0.0443	0.0197	0.0429	0.0470	0.0326	0.0374	0.0400	0.0531	0.0582
Other											
Hardness (as CaCO3)	mg/l	33.8	35.4	26.1	34.5	37.8	34.9	35.8	37.0	39.5	42.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.050 UJ	0.052 J	0.013 J	< 0.051 UJ	0.058 J
2-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.018 J	< 0.051 U	< 0.050 UJ	0.075 J	0.016 J	< 0.051 UJ	0.049 J
Acenaphthene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.050 U	< 0.051 U	< 0.050 UJ	< 0.054 UJ	< 0.052 UJ	< 0.051 UJ	0.034 J
Acenaphthylene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.021 J	< 0.051 U	< 0.050 UJ	0.012 J	0.017 J	< 0.051 UJ	< 0.050 UJ
Anthracene - Total	ug/l	0.014 J	0.011 J	< 0.051 UJ	0.052	< 0.051 U	< 0.050 UJ	0.028 J	0.039 J	< 0.051 UJ	0.026 J
Benzo(a)Anthracene - Total	ug/l	< 0.051 UJ	0.013 J	< 0.051 UJ	0.11	0.017 J	0.013 J	0.033 J	0.068 J	< 0.051 UJ	0.037 J
Benzo(a)Pyrene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.069	< 0.051 U	< 0.050 UJ	0.017 J	0.042 J	< 0.051 UJ	0.023 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 UJ	0.016 J	0.015 J	0.29	0.034 J	0.034 J	0.073 J	0.18 J	0.014 J	0.087 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.069	< 0.051 U	0.015 J	0.019 J	0.043 J	< 0.051 UJ	0.023 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.10	0.011 J	0.014 J	0.025 J	0.060 J	< 0.051 UJ	0.032 J
Chrysene - Total	ug/l	0.022 J	0.026 J	0.017 J	0.29	0.026 J	0.033 J	0.11 J	0.21 J	0.023 J	0.092 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.012 J	< 0.051 U	< 0.050 UJ	< 0.054 UJ	0.012 J	< 0.051 UJ	< 0.050 UJ
Fluoranthene - Total	ug/l	0.10 J	0.10 J	0.075 J	0.70	0.13	0.081 J	0.31 J	0.54 J	0.053 J	0.26 J
Fluorene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.012 J	< 0.051 U	< 0.050 UJ	< 0.054 UJ	< 0.052 UJ	< 0.051 UJ	0.039 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.092	0.012 J	0.020 J	0.021 J	0.055 J	< 0.051 UJ	0.030 J
Naphthalene - Total	ug/l	0.059 J	0.042 J	< 0.051 UJ	0.062	0.034 J	< 0.050 UJ	0.12 J	0.043 J	< 0.051 UJ	0.094 J
Phenanthrene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.12	< 0.051 U	< 0.050 UJ	0.069 J	0.13 J	< 0.051 UJ	0.081 J
Pyrene - Total	ug/l	0.086 J	0.086 J	0.055 J	0.63	0.083	0.066 J	0.19 J	0.32 J	0.051 J	0.21 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	2.1 J	2.4 J	NA	NA	< 5.0 U	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	0.2 J	0.3 J	< 0.5 U	0.3 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/21/2013	4/21/2013	4/22/2013	4/22/2013	4/23/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013	4/25/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-DUP-10-042113	WS-007(0.5-1.0)042113	WS-007(SURFACE)042213	WS-007(0.5-1.0)042213	WS-007(SURFACE)042313	WS-007(0.5-1.0)042313	WS-007(SURFACE)042413	WS-007(0.5-1.0)042413	WS-007(SURFACE)042513	WS-007(0.5-1.0)042513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.4 J	0.8	0.1 J	0.4 J
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.2 J	4.1 J	4.0 J	3.8 J	< 5.0 U	3.1 J	3.4 J	3.1 J	5.8	6.5
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	0.1 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	0.3 J	0.3 J	< 0.5 U	0.4 J	< 0.5 U	0.5
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.6	0.6	1	1.5	0.4 J	1.1

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/26/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013	4/28/2013	4/29/2013	4/29/2013	4/30/2013	4/30/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)042613	WS-007(0.5-1.0)042613	WS-007(SURFACE)042713	WS-007(0.5-1.0)042713	WS-007(SURFACE)042813	WS-007(0.5-1.0)042813	WS-007(SURFACE)042913	WS-007(0.5-1.0)042913	WS-007(SURFACE)043013	WS-007(0.5-1.0)043013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	187	187	196	196	202	202	207	207	53	53
Dissolved Oxygen	mg/l	0	0	3.37	3.37	0	0	2.6	2.6	0.61	0.61
pH	SU	5.99	5.99	6.04	6.04	6.3	6.3	6.8	6.8	6.42	6.42
Temperature	deg C	17.47	17.47	16.72	16.72	16.82	16.82	25.82	25.82	24.06	24.06
Turbidity	NTU	689	689	660	660	668	668	600	600	615	615
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0177 J	0.0164 J	0.0113 J	0.0110 J	0.0165 J	0.0169 J	0.0105 J	0.0137 J	< 0.0200 U	0.0091 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.253	0.263	0.266	0.271	0.280	0.282	0.252	0.351	0.225	0.238
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.00040 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00045 J
Calcium - Total	mg/l	6.43	6.42	6.95	6.76	7.01	7.05	6.86	7.96	6.36	6.56
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0336	0.0355	0.0267	0.0267	0.0367	0.0333	0.0295	0.0425	0.0274	0.0278
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0293	0.0313	0.0311	0.0331	0.0299	0.0291	0.0575	0.0888	0.0266	0.0293
Magnesium - Total	mg/l	5.36	5.43	5.19	5.23	5.89	5.59	5.16	6.85	4.75	4.96
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000091 J	0.000092 J	0.00011 J	0.000098 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000091 J	0.00010 J	0.000094 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0294	0.0305	0.0253	0.0257	0.0312	0.0284	0.0249	0.0353	0.0216	0.0232
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0497	0.0518	0.0424	0.0439	0.0557	0.0516	0.0435	0.0620	0.0405	0.0433
Other											
Hardness (as CaCO3)	mg/l	38.1	38.4	38.7	38.4	41.8	40.6	38.4	48.1	35.4	36.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 U	0.014 J	0.015 J	0.011 J	0.011 J	< 0.051 UJ	< 0.051 UJ	0.021 J	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 U	0.013 J	0.013 J	< 0.051 UJ	0.013 J	< 0.051 UJ	< 0.051 UJ	0.013 J	< 0.051 UJ
Acenaphthene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	0.015 J	< 0.051 UJ	0.023 J	< 0.051 UJ	< 0.051 UJ	< 0.057 UJ	< 0.051 UJ
Acenaphthylene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.015 J	< 0.057 UJ	< 0.051 UJ
Anthracene - Total	ug/l	0.012 J	0.012 J	0.033 J	0.040 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.033 J	< 0.057 UJ	0.012 J
Benzo(a)Anthracene - Total	ug/l	0.018 J	0.025 J	0.012 J	0.015 J	< 0.051 UJ	0.011 J	0.011 J	0.10 J	< 0.057 UJ	0.011 J
Benzo(a)Pyrene - Total	ug/l	0.015 J	0.016 J	< 0.051 U	0.011 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.074 J	< 0.057 UJ	< 0.051 UJ
Benzo(b)Fluoranthene - Total	ug/l	0.036 J	0.060	0.024 J	0.077 J	< 0.051 UJ	0.030 J	0.032 J	0.34 J	0.012 J	0.019 J
Benzo(g,h,i)Perylene - Total	ug/l	0.018 J	0.016 J	< 0.051 U	0.016 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.044 J	< 0.057 UJ	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	0.013 J	0.019 J	< 0.051 U	0.023 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.11 J	< 0.057 UJ	< 0.051 UJ
Chrysene - Total	ug/l	0.040 J	0.094	0.027 J	0.092	0.019 J	0.037 J	0.037 J	0.33 J	0.019 J	0.023 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.057 UJ	< 0.051 UJ
Fluoranthene - Total	ug/l	0.083 J	0.16	0.23 J	0.30 J	0.053 J	0.10 J	0.11 J	0.70 J	0.073 J	0.11 J
Fluorene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	0.019 J	< 0.051 UJ	0.029 J	< 0.051 UJ	< 0.051 UJ	< 0.057 UJ	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.024 J	0.022 J	< 0.051 U	0.020 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.067 J	< 0.057 UJ	< 0.051 UJ
Naphthalene - Total	ug/l	0.037 J	0.063	< 0.051 U	0.031 J	< 0.051 UJ	0.031 J	< 0.051 UJ	< 0.051 UJ	< 0.057 UJ	< 0.051 UJ
Phenanthrene - Total	ug/l	< 0.051 UJ	0.041 J	< 0.051 U	0.042 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.13 J	< 0.057 UJ	< 0.051 UJ
Pyrene - Total	ug/l	0.064 J	0.12	0.14	0.16	0.043 J	0.090 J	0.077 J	0.57 J	0.062 J	0.089 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 UJ	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		4/26/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013	4/28/2013	4/29/2013	4/29/2013	4/30/2013	4/30/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)042613	WS-007(0.5-1.0)042613	WS-007(SURFACE)042713	WS-007(0.5-1.0)042713	WS-007(SURFACE)042813	WS-007(0.5-1.0)042813	WS-007(SURFACE)042913	WS-007(0.5-1.0)042913	WS-007(SURFACE)043013	WS-007(0.5-1.0)043013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	0.3 J	0.2 J	0.6	0.3 J	0.7	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	7.6	7.9	6.7	6.4	6.6	7.8	7.2	5.6	5.2	6.2
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.4 J	0.7	0.8	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	0.3 J	0.7	0.7	0.8	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/3/2013	5/4/2013	5/4/2013	5/5/2013	5/5/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)050113	WS-007(0.5-1.0)050113	WS-007(SURFACE)050213	WS-007(0.5-1.0)050213	WS-007(SURFACE)050313	WS-007(0.5-1.0)050313	WS-007(SURFACE)050413	WS-007(0.5-1.0)050413	WS-007(SURFACE)050513	WS-007(0.5-1.0)050513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	56	56	60	60	74	74	60	60	64	64
Dissolved Oxygen	mg/l	0.7	0.7	1.23	1.23	1.17	1.17	1.39	1.39	0	0
pH	SU	6.46	6.46	6.6	6.6	7.29	7.29	6.49	6.49	6.04	6.04
Temperature	deg C	21.43	21.43	21.56	21.56	15.34	15.34	14.32	14.32	14.97	14.97
Turbidity	NTU	679	679	519	519	800	800	800	800	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0083 J	0.0090 J	0.0100 J	0.0101 J	0.0224	0.0299	0.0102 J	0.0228	0.0242	0.0241
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.230	0.251	0.261	0.250	0.336	0.538	0.313	0.722	0.352	0.352
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00036 J	< 0.0050 U	0.00052 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00044 J	0.0011 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.92	6.94	6.46	7.19	7.55	11.3	7.27	15.8	7.62	7.92
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0269	0.0321	0.0357	0.0283	0.0373	0.0549	0.0371	0.0683	0.0447	0.0426
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0266	0.0304	0.0326	0.0314	0.0424	0.0876	0.0722	0.166	0.0407	0.0444
Magnesium - Total	mg/l	5.00	5.61	5.67 J	5.11 J	6.01	8.84	5.97	10.7	6.70	6.69
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.00010 J	0.00010 J	0.00012 J	0.00013 J	< 0.00020 U	0.00012 J	0.00012 J	0.00022	0.00011 J	0.00011 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0223	0.0257	0.0293	0.0244	0.0345	0.0513	0.0327	0.0620	0.0375	0.0360
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0407	0.0486	0.0525	0.0428	0.0579	0.0871	0.0555	0.112	0.0674	0.0652
Other											
Hardness (as CaCO3)	mg/l	37.9	40.4	39.5	39.0	43.6	64.5	42.8	83.3	46.6	47.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.14 J	0.023 J	< 0.051 UJ	< 0.053 UJ	0.082 J	0.085 J	0.10 J	0.029 J	0.12 J	0.32 J
2-Methylnaphthalene - Total	ug/l	0.25 J	0.020 J	< 0.051 UJ	< 0.053 UJ	0.082 J	0.092 J	0.11 J	0.027 J	0.12 J	0.30 J
Acenaphthene - Total	ug/l	0.060 J	0.020 J	< 0.051 UJ	0.015 J	0.047 J	0.27 J	0.053 J	0.10 J	0.025 J	0.038 J
Acenaphthylene - Total	ug/l	0.017 J	0.024 J	< 0.051 UJ	< 0.053 UJ	0.022 J	0.37 J	0.070 J	0.23 J	0.015 J	0.046 J
Anthracene - Total	ug/l	0.042 J	0.050 J	0.021 J	0.031 J	0.028 J	0.90 J	0.13 J	0.53 J	0.022 J	0.080 J
Benzo(a)Anthracene - Total	ug/l	0.053 J	0.077 J	< 0.051 UJ	0.031 J	0.043 J	4.2 J	0.064 J	1.5 J	0.024 J	0.22 J
Benzo(a)Pyrene - Total	ug/l	0.026 J	0.039 J	< 0.051 UJ	0.027 J	0.032 J	2.1 J	0.27 J	1.1 J	0.022 J	0.15 J
Benzo(b)Fluoranthene - Total	ug/l	0.085 J	0.18 J	0.016 J	0.084 J	0.043 J	7.2 J	0.15 J	4.9 J	0.062 J	0.55 J
Benzo(g,h,i)Perylene - Total	ug/l	0.021 J	0.030 J	< 0.051 UJ	0.016 J	0.041 J	1.5 J	0.024 J	0.64 J	0.019 J	0.13 J
Benzo(k)Fluoranthene - Total	ug/l	0.026 J	0.059 J	< 0.051 UJ	0.030 J	0.030 J	2.6 J	0.061 J	1.4 J	0.021 J	0.16 J
Chrysene - Total	ug/l	0.15 J	0.21 J	0.034 J	0.096 J	0.059 J	9.8 J	0.15 J	4.1 J	0.067 J	0.55 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.057 UJ	0.012 J	< 0.051 UJ	< 0.053 UJ	0.031 J	0.38 J	< 0.060 UJ	0.19 J	< 0.054 UJ	0.027 J
Fluoranthene - Total	ug/l	0.36 J	0.53 J	0.13 J	0.30 J	0.079 J	21 J	0.53 J	11 J	0.13 J	1.1 J
Fluorene - Total	ug/l	0.028 J	0.018 J	< 0.051 UJ	0.014 J	0.078 J	0.29 J	0.14 J	0.14 J	0.060 J	0.080 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.019 J	0.045 J	< 0.051 UJ	0.023 J	0.049 J	2.2 J	0.018 J	0.91 J	0.018 J	0.19 J
Naphthalene - Total	ug/l	0.27 J	< 0.055 UJ	< 0.051 UJ	< 0.053 UJ	0.055 J	0.12 J	0.060 J	0.048 J	0.083 J	0.17 J
Phenanthrene - Total	ug/l	0.098 J	0.097 J	< 0.051 UJ	0.052 J	0.059 J	4.4 J	0.56 J	2.2 J	0.068 J	0.29 J
Pyrene - Total	ug/l	0.26 J	0.32 J	0.075 J	0.19 J	0.074 J	18 J	0.52 J	7.2 J	0.094 J	0.91 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	0.8	0.8	0.5	0.5 J	0.9	0.9
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/3/2013	5/4/2013	5/4/2013	5/5/2013	5/5/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)050113	WS-007(0.5-1.0)050113	WS-007(SURFACE)050213	WS-007(0.5-1.0)050213	WS-007(SURFACE)050313	WS-007(0.5-1.0)050313	WS-007(SURFACE)050413	WS-007(0.5-1.0)050413	WS-007(SURFACE)050513	WS-007(0.5-1.0)050513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	0.5	0.5	0.4 J	0.4 J	0.6	0.6
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	1.2 J	< 5.0 U	< 5.0 U	1.0 J	1.1 J
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	5.0	5.8	4.6 J	< 5.0 U	5.8	6.4	5.7	3.0 J	7.1	6.7
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	0.1 J	0.1 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	< 0.5 U	< 0.5 U	0.2 J	0.2 J
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.1 J	0.1 J	0.2 J	0.2 J
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	1.4	0.1 J	0.3 J	5.3	5.9	0.3 J	0.4 J	5.3	5.5
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	0.4 J	< 0.5 U	< 0.5 U	1.9	2.1	1.4	1.3	2.2	2.3

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/6/2013	5/6/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013	5/9/2013	5/10/2013	5/10/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)050613	WS-007(0.5-1.0)050613	WS-007(SURFACE)050713	WS-007(0.5-1.0)050713	WS-007(SURFACE)050813	WS-007(0.5-1.0)050813	WS-007(SURFACE)050913	WS-007(0.5-1.0)050913	WS-007(SURFACE)051013	WS-007(0.5-1.0)051013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	66	66	62	62	82	82	59	59	52	52
Dissolved Oxygen	mg/l	0.63	0.63	0	0	0	0	0.91	0.91	1.19	1.19
pH	SU	6.15	6.15	6.47	6.47	6.45	6.45	6.39	6.39	6.44	6.44
Temperature	deg C	16.64	16.64	20.09	20.09	22.68	22.68	23.83	23.83	23.24	23.24
Turbidity	NTU	800	800	795	795	800	800	800	800	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0110 J	0.0109 J	0.0149 J	0.0257	0.0101 J	0.0117 J	0.0124 J	0.0221	0.0108 J	0.0144 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.328	0.329	0.307	0.502	0.288	0.321	0.338	0.650	0.260	0.373
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0010 J	0.0016 J	0.00056 J	0.00049 J	< 0.0050 U	0.00073 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.59	7.60	7.17	9.63	7.47	8.36	7.57	10.6	6.78	7.80
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0473	0.0460	0.0463	0.0717	0.0423	0.0467	0.0522	0.0899	0.0351	0.0544
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0766	0.0759	0.0325	0.0787	0.0337	0.0428	0.0769	0.183	0.0584	0.0930
Magnesium - Total	mg/l	6.88	6.91	6.81	9.86	6.78 J	7.28 J	7.55	12.2	5.89	8.06
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000073 J	0.000081 J	0.000084 J	0.00014 J	0.000075 J	0.000094 J	0.000086 J	0.00022	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0358	0.0363	0.0350	0.0541	0.0335	0.0372	0.0401	0.0713	0.0285	0.0453
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0681	0.0675	0.0678	0.107	0.0625	0.0688	0.0742	0.132	0.0502	0.0777
Other											
Hardness (as CaCO3)	mg/l	47.3	47.4	46.0	64.6	46.6	50.8	50.0	76.6	41.2	52.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.027 J	< 0.052 UJ	< 0.051 U	0.019 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.014 J	< 0.052 UJ	< 0.050 UJ
2-Methylnaphthalene - Total	ug/l	0.036 J	0.012 J	< 0.051 U	0.024 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.019 J	< 0.052 UJ	< 0.050 UJ
Acenaphthene - Total	ug/l	0.037 J	< 0.052 UJ	< 0.051 U	0.068 J	< 0.052 UJ	0.013 J	< 0.051 UJ	0.030 J	< 0.052 UJ	< 0.050 UJ
Acenaphthylene - Total	ug/l	0.032 J	< 0.052 UJ	< 0.051 U	0.044 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.048 J	< 0.052 UJ	0.018 J
Anthracene - Total	ug/l	0.044 J	< 0.052 UJ	0.016 J	0.11 J	< 0.052 UJ	0.018 J	0.037 J	0.19 J	< 0.052 U	0.039 J
Benzo(a)Anthracene - Total	ug/l	0.13 J	< 0.052 UJ	0.030 J	0.40 J	< 0.052 UJ	0.044 J	0.12 J	1.4 J	< 0.052 UJ	0.10 J
Benzo(a)Pyrene - Total	ug/l	0.054 J	< 0.052 UJ	0.011 J	0.25 J	< 0.052 UJ	0.028 J	0.017 J	0.54 J	< 0.052 UJ	0.070 J
Benzo(b)Fluoranthene - Total	ug/l	0.32 J	0.021 J	0.047 J	1.1 J	0.012 J	0.11 J	0.13 J	1.4 J	< 0.052 UJ	0.27 J
Benzo(g,h,i)Perylene - Total	ug/l	0.031 J	< 0.052 UJ	< 0.051 U	0.22 J	< 0.052 UJ	0.023 J	0.027 J	0.35 J	< 0.052 UJ	0.063 J
Benzo(k)Fluoranthene - Total	ug/l	0.13 J	< 0.052 UJ	0.019 J	0.34 J	< 0.052 UJ	0.038 J	0.039 J	0.44 J	< 0.052 UJ	0.087 J
Chrysene - Total	ug/l	0.52 J	0.022 J	0.086	1.1 J	0.017 J	0.080 J	0.29 J	0.44 J	< 0.052 UJ	0.23 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 UJ	< 0.052 UJ	< 0.051 U	0.044 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.097 J	< 0.052 UJ	0.014 J
Fluoranthene - Total	ug/l	1.6 J	0.046 J	0.40	3.0 J	0.039 J	0.25 J	0.69 J	2.7 J	< 0.052 UJ	0.56 J
Fluorene - Total	ug/l	0.080 J	< 0.052 UJ	< 0.051 U	0.054 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.065 J	< 0.052 UJ	0.012 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.046 J	< 0.052 UJ	< 0.051 U	0.29 J	< 0.052 UJ	0.032 J	0.034 J	0.48 J	< 0.052 UJ	0.085 J
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 UJ	0.15	0.084 J	< 0.052 UJ	< 0.051 UJ	0.045 J	< 0.051 UJ	< 0.052 UJ	0.037 J
Phenanthrene - Total	ug/l	1.0 J	< 0.052 UJ	< 0.051 U	0.60 J	< 0.052 UJ	0.045 J	0.17 J	1.2 J	< 0.052 UJ	0.12 J
Pyrene - Total	ug/l	1.0 J	0.043 J	0.54	2.1 J	0.11 J	0.27 J	0.54 J	0.87 J	0.022 J	0.52 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/6/2013	5/6/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013	5/9/2013	5/10/2013	5/10/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)050613	WS-007(0.5-1.0)050613	WS-007(SURFACE)050713	WS-007(0.5-1.0)050713	WS-007(SURFACE)050813	WS-007(0.5-1.0)050813	WS-007(SURFACE)050913	WS-007(0.5-1.0)050913	WS-007(SURFACE)051013	WS-007(0.5-1.0)051013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.3 J	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	7.2	6.0	3.4 J	3.9 J	4.3 J	3.6 J	5.5	6.0	4.1 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	< 0.5 U	< 0.5 U	0.9	0.2 J	0.8	0.2 J	6.4	< 0.5 U	4.0
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.6	0.6	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/11/2013	5/11/2013	5/12/2013	5/12/2013	5/13/2013	5/13/2013	5/14/2013	5/14/2013	5/15/2013	5/15/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)051113	WS-007(0.5-1.0)051113	WS-007(SURFACE)051213	WS-007(0.5-1.0)051213	WS-007(SURFACE)051313	WS-007(0.5-1.0)051313	WS-007(SURFACE)051413	WS-007(0.5-1.0)051413	WS-007(SURFACE)051513	WS-007(0.5-1.0)051513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	62	62	61	61	74	74	62	62	55	55
Dissolved Oxygen	mg/l	0	0	0.49	0.49	0	0	0.22	0.22	0.73	0.73
pH	SU	6.47	6.47	6.23	6.23	6.16	6.16	6.4	6.4	6.54	6.54
Temperature	deg C	21.04	21.04	21.04	21.04	25.44	25.44	23.17	23.17	24.33	24.33
Turbidity	NTU	800	800	800	800	800	800	757	757	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0112 J	0.0146 J	0.0112 J	0.0119 J	0.0120 J	0.0168 J	0.0102 J	0.0101 J	0.0183 J	0.0197 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.337	0.422	0.324	0.377	0.347	0.563	0.335	0.337	0.335	0.373
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00094 J	< 0.0050 U	< 0.0050 U	0.00089 J	0.0011 J
Calcium - Total	mg/l	7.59	8.92	8.39	8.60	7.54	9.66	8.12	7.97	7.58	8.07
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0442	0.0513	0.0379	0.0430	0.0534	0.0770	0.0452	0.0443	0.0469	0.0523
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0427	0.0679	0.0452	0.0526	0.152	0.231	0.136	0.133	0.0432	0.0618
Magnesium - Total	mg/l	6.82	8.03	7.05	7.13	7.52	10.7	7.41 J	7.33 J	6.94	7.61
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	0.000072 J	0.000075 J	< 0.00020 U	0.000084 J	0.00012 J	< 0.00020 U	0.000073 J	0.000075 J	0.000094 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0340	0.0414	0.0336	0.0375	0.0406	0.0630	0.0377	0.0377	0.0400	0.0446
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	0.010 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0015 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0661	0.0795	0.0619 J	0.0670 J	0.0749	0.113	0.0633	0.0637	0.0656	0.0728
Other											
Hardness (as CaCO3)	mg/l	47.0	55.3	50.0	50.8	49.8	68.3	50.8	50.1	47.5	51.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 UJ	0.012 J	< 0.050 UJ	< 0.050 UJ	< 0.051 U	0.011 J	< 0.050 UJ	< 0.051 UJ	0.051 J	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	< 0.050 UJ	0.011 J	< 0.050 UJ	< 0.050 UJ	< 0.051 U	0.016 J	< 0.050 U	< 0.051 UJ	0.10	< 0.051 UJ
Acenaphthene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	0.031 J	< 0.050 UJ	< 0.051 UJ	0.013 J	< 0.051 UJ
Acenaphthylene - Total	ug/l	< 0.050 UJ	0.013 J	< 0.050 UJ	0.013 J	< 0.051 U	0.058 J	< 0.050 UJ	< 0.051 UJ	0.018 J	< 0.051 UJ
Anthracene - Total	ug/l	< 0.050 UJ	0.035 J	< 0.050 UJ	0.031 J	0.022 J	0.14 J	< 0.050 UJ	< 0.051 UJ	0.040 J	0.013 J
Benzo(a)Anthracene - Total	ug/l	< 0.050 UJ	0.088 J	< 0.050 UJ	0.10 J	0.034 J	0.51 J	< 0.050 UJ	0.013 J	0.082	0.027 J
Benzo(a)Pyrene - Total	ug/l	< 0.050 UJ	0.053 J	< 0.050 UJ	0.051 J	0.031 J	0.38 J	< 0.050 UJ	< 0.051 UJ	0.060	0.020 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 UJ	0.23 J	< 0.050 UJ	0.23 J	0.13	1.6 J	< 0.050 UJ	0.033 J	0.26	0.083 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 UJ	0.058 J	< 0.050 UJ	0.041 J	0.027 J	0.19 J	< 0.050 UJ	< 0.051 UJ	0.050 J	0.018 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 UJ	0.072 J	< 0.050 UJ	0.076 J	0.038 J	0.49 J	< 0.050 UJ	0.012 J	0.078	0.029 J
Chrysene - Total	ug/l	< 0.050 UJ	0.24 J	< 0.050 UJ	0.20 J	0.18	1.3 J	< 0.050 UJ	0.024 J	0.26	0.082 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 UJ	0.012 J	< 0.050 UJ	< 0.050 UJ	< 0.051 U	0.051 J	< 0.050 UJ	< 0.051 UJ	0.011 J	< 0.051 UJ
Fluoranthene - Total	ug/l	0.013 J	0.44 J	< 0.050 UJ	0.54 J	0.15	2.6 J	< 0.050 UJ	0.046 J	0.29	0.13 J
Fluorene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 U	0.029 J	< 0.050 UJ	< 0.051 UJ	0.012 J	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 UJ	0.073 J	< 0.050 UJ	0.055 J	0.036 J	0.29 J	< 0.050 UJ	0.013 J	0.070	0.023 J
Naphthalene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	0.033 J	0.040 J	< 0.050 UJ	< 0.051 UJ	0.13	< 0.051 UJ
Phenanthrene - Total	ug/l	< 0.050 UJ	0.096 J	< 0.050 UJ	0.096 J	0.041 J	0.49 J	< 0.050 UJ	< 0.051 UJ	0.066	< 0.051 UJ
Pyrene - Total	ug/l	0.029 J	0.45 J	0.016 J	0.39 J	0.14	1.9 J	0.011 J	0.054 J	0.27	0.11 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	< 5.0 U	1.9 J	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/11/2013	5/11/2013	5/12/2013	5/12/2013	5/13/2013	5/13/2013	5/14/2013	5/14/2013	5/15/2013	5/15/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)051113	WS-007(0.5-1.0)051113	WS-007(SURFACE)051213	WS-007(0.5-1.0)051213	WS-007(SURFACE)051313	WS-007(0.5-1.0)051313	WS-007(SURFACE)051413	WS-007(0.5-1.0)051413	WS-007(SURFACE)051513	WS-007(0.5-1.0)051513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	4.2 J	9.1	6.9	6.7	5.4	8.6	< 5.0 U	< 5.0 U	3.3 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.3 J	0.7	0.1 J	2.5	< 0.5 U	10	< 0.5 U	0.5	0.3 J	3.1
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/16/2013	5/16/2013	5/17/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013	5/19/2013	5/20/2013	5/20/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft
Sample ID		WS-007(SURFACE)051613	WS-007(0.5-1.0)051613	WS-007(SURFACE)051713	WS-007(0.5-1.0)051713	WS-007(SURFACE)051813	WS-007(0.5-1.0)051813	WS-007(SURFACE)051913	WS-007(0.5-1.0)051913	WS-007(SURFACE)052013	WS-DUP-28-052013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	53	53	62	62	64	64	58	58	61	NA
Dissolved Oxygen	mg/l	0.67	0.67	0	0	2.46	2.46	0.55	0.55	0.29	NA
pH	SU	6.39	6.39	6.54	6.54	6.48	6.48	6.42	6.42	6.51	NA
Temperature	deg C	21.41	21.41	24.31	24.31	24.72	24.72	25.65	25.65	26.83	NA
Turbidity	NTU	800	800	800	800	390	390	800	800	800	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0198 J	0.0270	0.0192 J	0.0211	0.0105 J	0.0150 J	0.0108 J	0.0091 J	0.0232	0.0140 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.315	0.402	0.285	0.301	0.297	0.412	0.266	0.274	0.360	0.350
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00064 J	0.00078 J	< 0.0050 U	< 0.0050 U	0.0011 J	0.0017 J	0.00045 J	< 0.0050 U	0.00053 J	0.00048 J
Calcium - Total	mg/l	7.29	8.06	7.10	7.79	7.57	8.78	7.37	8.57	7.97	7.95
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0479	0.0650	0.0394	0.0402	0.0369	0.0469	0.0305	0.0104 J	0.0470	0.0460
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0323	0.0648	0.0370	0.0430	0.0353	0.0678	0.0249	0.0269	0.0449	0.0418
Magnesium - Total	mg/l	6.76	8.87	6.13	6.34	6.15	7.39	5.66	4.09	7.18	7.12
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.000078 J	0.000086 J	< 0.00020 U	0.000083 J	< 0.00020 U	0.00012 J	0.000088 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0359	0.0504	0.0331	0.0338	0.0303	0.0403	0.0250	0.0136	0.0382	0.0377
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0015 J	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0661	0.0908	0.0560	0.0566	0.0547	0.0708	0.0438	0.0229	0.0671	0.0654
Other											
Hardness (as CaCO3)	mg/l	46.0	56.6	43.0	45.6	44.2	52.4	41.7	38.3	49.5	49.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 UJ	< 0.053 UJ	< 0.051 U	< 0.051 UJ	0.011 J	< 0.053 UJ
2-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	< 0.051 UJ	0.012 J	0.011 J	< 0.051 UJ	0.017 J	0.016 J
Acenaphthene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	0.014 J	0.031 J	0.013 J	< 0.051 UJ	< 0.050 UJ	< 0.053 UJ
Acenaphthylene - Total	ug/l	< 0.050 UJ	0.018 J	< 0.050 UJ	< 0.050 UJ	< 0.051 UJ	0.060 J	< 0.051 U	0.024 J	< 0.050 UJ	< 0.053 UJ
Anthracene - Total	ug/l	< 0.050 UJ	0.037 J	< 0.050 UJ	0.016 J	0.022 J	0.12 J	< 0.051 U	0.052 J	< 0.050 UJ	< 0.053 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.050 UJ	0.086 J	< 0.050 UJ	0.022 J	0.031 J	0.37 J	< 0.051 U	0.13 J	0.015 J	0.014 J
Benzo(a)Pyrene - Total	ug/l	< 0.050 UJ	0.074 J	< 0.050 UJ	0.015 J	0.025 J	0.35 J	< 0.051 U	0.11 J	0.011 J	0.011 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 UJ	0.28 J	< 0.050 UJ	0.046 J	0.097 J	1.2 J	0.015 J	0.39 J	0.037 J	0.035 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 UJ	0.074 J	< 0.050 UJ	0.012 J	0.025 J	0.28 J	< 0.051 U	0.097 J	< 0.050 UJ	0.013 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 UJ	0.083 J	< 0.050 UJ	0.015 J	0.029 J	0.43 J	< 0.051 U	0.13 J	0.012 J	0.012 J
Chrysene - Total	ug/l	< 0.050 UJ	0.24 J	< 0.050 UJ	0.049 J	0.084 J	1.2 J	0.019 J	0.26 J	0.033 J	0.024 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 UJ	0.015 J	< 0.050 UJ	< 0.050 UJ	< 0.051 UJ	0.063 J	< 0.051 U	0.022 J	< 0.050 UJ	< 0.053 UJ
Fluoranthene - Total	ug/l	< 0.050 UJ	0.39 J	< 0.050 UJ	0.080 J	0.21 J	2.5 J	0.039 J	0.53 J	0.057 J	0.060 J
Fluorene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	0.011 J	0.025 J	< 0.051 U	< 0.051 UJ	< 0.050 UJ	0.014 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 UJ	0.098 J	< 0.050 UJ	0.015 J	0.031 J	0.37 J	< 0.051 U	0.14 J	0.013 J	0.014 J
Naphthalene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	< 0.050 UJ	< 0.050 UJ	0.034 J	< 0.053 UJ	< 0.051 U	< 0.051 UJ	< 0.050 UJ	< 0.053 UJ
Phenanthrene - Total	ug/l	< 0.050 UJ	0.066 J	< 0.050 UJ	< 0.050 UJ	0.060 J	0.40 J	< 0.051 U	0.11 J	< 0.050 UJ	< 0.053 UJ
Pyrene - Total	ug/l	< 0.050 UJ	0.33 J	0.015 J	0.072 J	0.16 J	2.0 J	0.037 J	0.47 J	0.051 J	0.050 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	2.0 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/16/2013	5/16/2013	5/17/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013	5/19/2013	5/20/2013	5/20/2013
Depths (ft)		0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft
Sample ID		WS-007(SURFACE)051613	WS-007(0.5-1.0)051613	WS-007(SURFACE)051713	WS-007(0.5-1.0)051713	WS-007(SURFACE)051813	WS-007(0.5-1.0)051813	WS-007(SURFACE)051913	WS-007(0.5-1.0)051913	WS-007(SURFACE)052013	WS-DUP-28-052013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.3 J	3.8 J	4.8 J	5.2	3.6 J	4.0 J	3.3 J	4.2 J	< 5.0 U	3.2 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	1.5	< 0.5 U	2.7	2.2 J	17	0.6	4.3	3.5 J	2.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/20/2013	5/21/2013	5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)052013	WS-007(SURFACE)052113	WS-007(0.5-1.0)052113	WS-007(SURFACE)052213	WS-007(0.5-1.0)052213	WS-007(SURFACE)052313	WS-007(0.5-1.0)052313	WS-007(SURFACE)052413	WS-007(0.5-1.0)052413	WS-007(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	61	63	63	67	67	70	70	54	54	69
Dissolved Oxygen	mg/l	0.29	0.93	0.93	0.14	0.14	0.12	0.12	0.13	0.13	0.09
pH	SU	6.51	6.41	6.41	6.15	6.15	6.44	6.44	6.41	6.41	6.56
Temperature	deg C	26.83	23.82	23.82	21.89	21.89	23.49	23.49	22.75	22.75	22.5
Turbidity	NTU	800	509	509	450	450	517	517	800	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0306	0.0166 J	0.0172 J	0.0112 J	0.0130 J	0.0085 J	0.0124 J	0.0185 J	0.0194 J	0.0185 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.600	0.355	0.392	0.227	0.254	0.334 J	0.343 J	0.274	0.285	0.353
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.0011 J	0.00056 J	0.00062 J	< 0.0050 U	< 0.0050 U	0.0013 J	0.0013 J	0.00069 J	0.00052 J	< 0.0050 U
Calcium - Total	mg/l	11.2	7.67	8.16	7.15	7.32	7.46	7.42	6.37	6.54	6.94
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0610	0.0516	0.0567	0.0250	0.0310	0.0468	0.0508	0.0316	0.0331	0.0425
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.123	0.0428	0.0540	0.0175	0.0227	0.0396	0.0429	0.0357	0.0368	0.0839
Magnesium - Total	mg/l	9.55	7.42	8.12	4.51 J	5.19 J	6.86	7.18	5.15 J	5.22 J	6.09
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.00021	0.000076 J	0.000098 J	0.00011 J	0.000096 J	0.000072 J	0.000080 J	0.000085 J	0.000092 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0558	0.0395	0.0429	0.0177	0.0235	0.0337	0.0369	0.0283	0.0287	0.0316
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.100	0.0730	0.0810	0.0361 J	0.0452 J	0.0684	0.0731	0.0474	0.0498	0.0612
Other											
Hardness (as CaCO3)	mg/l	67.3	49.7	53.8	36.4	39.6	46.9	48.1	37.1	37.8	42.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.011 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	0.025 J
2-Methylnaphthalene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.016 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	0.040 J
Acenaphthene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.031 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	0.060
Acenaphthylene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.084 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	0.054
Anthracene - Total	ug/l	0.015 J	0.013 J	0.17 J	< 0.051 UJ	< 0.051 UJ	0.014 J	0.018 J	< 0.050 UJ	< 0.051 UJ	0.11
Benzo(a)Anthracene - Total	ug/l	0.032 J	0.016 J	0.52 J	0.013 J	< 0.051 UJ	0.015 J	0.027 J	< 0.050 UJ	< 0.051 UJ	0.25 J
Benzo(a)Pyrene - Total	ug/l	0.039 J	0.015 J	0.47 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.019 J	< 0.050 UJ	< 0.051 UJ	0.11
Benzo(b)Fluoranthene - Total	ug/l	< 0.11 UJ	0.042 J	1.5 J	0.035 J	0.027 J	0.016 J	0.061 J	0.012 J	< 0.051 UJ	0.51
Benzo(g,h,i)Perylene - Total	ug/l	0.031 J	0.013 J	0.32 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.019 J	< 0.050 UJ	< 0.051 UJ	0.10 J
Benzo(k)Fluoranthene - Total	ug/l	0.037 J	0.013 J	0.56 J	0.013 J	< 0.051 UJ	< 0.051 UJ	0.021 J	< 0.050 UJ	< 0.051 UJ	0.16 J
Chrysene - Total	ug/l	0.047 J	0.041 J	1.6 J	0.069 J	0.023 J	0.033 J	0.062 J	0.012 J	< 0.051 UJ	0.86
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.078 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	0.020 J
Fluoranthene - Total	ug/l	< 0.080 UJ	0.068 J	1.7 J	0.068 J	0.038 J	0.040 J	0.12 J	< 0.050 UJ	< 0.051 UJ	2.7
Fluorene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.028 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	0.068
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.038 J	0.016 J	0.44 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.023 J	< 0.050 UJ	< 0.051 UJ	0.14 J
Naphthalene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.063 J	< 0.051 UJ	< 0.051 UJ	0.077 J	0.050 J	< 0.050 UJ	< 0.051 UJ	0.25
Phenanthrene - Total	ug/l	< 0.050 UJ	< 0.051 UJ	0.38 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.050 UJ	< 0.051 UJ	1.8
Pyrene - Total	ug/l	< 0.089 UJ	< 0.067 UB	1.9 J	0.059 J	0.033 J	0.089 J	0.12 J	0.024 J	0.023 J	2.1
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/20/2013	5/21/2013	5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)052013	WS-007(SURFACE)052113	WS-007(0.5-1.0)052113	WS-007(SURFACE)052213	WS-007(0.5-1.0)052213	WS-007(SURFACE)052313	WS-007(0.5-1.0)052313	WS-007(SURFACE)052413	WS-007(0.5-1.0)052413	WS-007(SURFACE)052513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.8 J	3.8 J	3.4 J	3.6 J	5.6
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	22	0.1 J	2.3	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/25/2013	5/26/2013	5/26/2013	5/27/2013	5/27/2013	5/28/2013	5/28/2013	5/29/2013	5/29/2013	5/30/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)052513	WS-007(SURFACE)052613	WS-007(0.5-1.0)052613	WS-007(SURFACE)052713	WS-007(0.5-1.0)052713	WS-007(SURFACE)052813	WS-007(0.5-1.0)052813	WS-007(SURFACE)052913	WS-007(0.5-1.0)052913	WS-007(SURFACE)053013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	69	67	67	64	64	63	63	58	58	68
Dissolved Oxygen	mg/l	0.09	1.86	1.86	0.4	0.4	2.38	2.38	2.08	2.08	0.05
pH	SU	6.56	6.86	6.86	6.49	6.49	6.67	6.67	6.64	6.64	6.58
Temperature	deg C	22.5	24.9	24.9	26.61	26.61	28	28	32.36	32.36	27.12
Turbidity	NTU	800	800	800	800	800	594	594	800	800	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0127 J	0.0167 J	0.0183 J	0.0108 J	0.0088 J	0.0189 J	0.0216	0.0097 J	0.0192 J	0.0166 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.293	0.342	0.329	0.222	0.228	0.201	0.258	0.192	0.382	0.190
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	0.00069 J	0.00090 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00041 J
Calcium - Total	mg/l	6.45	6.80	7.34	5.71	5.97	5.45	6.01	5.52	6.89	5.36
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0413	0.0396	0.0431	0.0326	0.0300	0.0298	0.0367	0.0268	0.0532	0.0296
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0855	0.0297	0.0442	0.0624	0.0644	0.0237	0.0437	0.0270	0.0727	0.0235
Magnesium - Total	mg/l	5.91	5.68	6.31	5.08	4.93	4.67	5.68	4.66	7.75	4.75 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000082 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0299	0.0309	0.0337	0.0252	0.0243	0.0236	0.0296	0.0210	0.0449	0.0233
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0099 J	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0603	0.0573	0.0634	0.0474	0.0447	0.0429	0.0533	0.0414	0.0801	0.0425
Other											
Hardness (as CaCO3)	mg/l	40.4	40.4	44.3	35.2	35.2	32.8	38.4	33.0	49.1	33.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.012 J	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	0.017 J	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	0.011 J	< 0.051 UJ
Acenaphthene - Total	ug/l	0.029 J	< 0.051 UJ	0.016 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ
Acenaphthylene - Total	ug/l	0.056	< 0.051 UJ	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.031 J	< 0.051 UJ	0.012 J	< 0.051 UJ
Anthracene - Total	ug/l	0.12	< 0.051 UJ	0.061 J	< 0.052 UJ	0.028 J	< 0.051 UJ	0.064 J	< 0.051 UJ	0.027 J	0.013 J
Benzo(a)Anthracene - Total	ug/l	0.31 J	0.014 J	0.23 J	< 0.052 UJ	0.083 J	< 0.051 UJ	0.13 J	< 0.051 UJ	0.058 J	0.030 J
Benzo(a)Pyrene - Total	ug/l	0.21	< 0.051 UJ	0.13 J	< 0.052 UJ	0.050 J	< 0.051 UJ	0.11 J	< 0.051 UJ	0.039 J	0.022 J
Benzo(b)Fluoranthene - Total	ug/l	0.75	0.022 J	0.45 J	0.012 J	0.20 J	0.014 J	0.43 J	< 0.051 UJ	0.18 J	0.066 J
Benzo(g,h,i)Perylene - Total	ug/l	0.21 J	< 0.051 UJ	0.096 J	< 0.052 UJ	0.041 J	< 0.051 UJ	0.10 J	< 0.051 UJ	0.035 J	0.019 J
Benzo(k)Fluoranthene - Total	ug/l	0.22 J	< 0.051 UJ	0.14 J	< 0.052 UJ	0.063 J	< 0.051 UJ	0.12 J	< 0.051 UJ	0.053 J	0.024 J
Chrysene - Total	ug/l	0.66	0.034 J	0.56 J	0.014 J	0.19 J	0.013 J	0.33 J	0.012 J	0.14 J	0.071 J
Dibenz(a,h)Anthracene - Total	ug/l	0.050 J	< 0.051 UJ	0.027 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.020 J	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ
Fluoranthene - Total	ug/l	1.2	0.051 J	0.57 J	0.022 J	0.30 J	0.027 J	0.65 J	0.020 J	0.30 J	0.088 J
Fluorene - Total	ug/l	0.021 J	< 0.051 UJ	0.012 J	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.011 J	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.28 J	< 0.051 UJ	0.13 J	< 0.052 UJ	0.054 J	< 0.051 UJ	0.13 J	< 0.051 UJ	0.044 J	0.022 J
Naphthalene - Total	ug/l	0.041 J	0.24 J	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.051 UJ	0.036 J	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ
Phenanthrene - Total	ug/l	0.43	0.041 J	0.12 J	< 0.052 UJ	0.062 J	< 0.051 UJ	0.12 J	< 0.051 UJ	0.073 J	< 0.051 UJ
Pyrene - Total	ug/l	1.2	0.047 J	0.62 J	0.021 J	0.28 J	0.022 J	0.51 J	0.018 J	0.26 J	0.095 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	1.5 J	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/25/2013	5/26/2013	5/26/2013	5/27/2013	5/27/2013	5/28/2013	5/28/2013	5/29/2013	5/29/2013	5/30/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)052513	WS-007(SURFACE)052613	WS-007(0.5-1.0)052613	WS-007(SURFACE)052713	WS-007(0.5-1.0)052713	WS-007(SURFACE)052813	WS-007(0.5-1.0)052813	WS-007(SURFACE)052913	WS-007(0.5-1.0)052913	WS-007(SURFACE)053013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.1 J	3.5 J	3.3 J	< 5.0 U	< 5.0 U	4.5 J	4.5 J	< 5.0 U	3.7 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	< 0.5 U	1.2	0.3 J	0.3 J	0.3 J	5.1	0.1 J	2.4	0.5
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/3/2013	6/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)053013	WS-007(SURFACE)053113	WS-007(0.5-1.0)053113	WS-007(SURFACE)060113	WS-007(0.5-1.0)060113	WS-007(SURFACE)060213	WS-007(0.5-1.0)060213	WS-007(SURFACE)060313	WS-007(0.5-1.0)060313	WS-007(SURFACE)060413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	68	28	28	32	32	46	46	46	46	46
Dissolved Oxygen	mg/l	0.05	2.55	2.55	2.44	2.44	0.94	0.94	1.35	1.35	2.56
pH	SU	6.58	6.27	6.27	6.6	6.6	6.43	6.43	6.61	6.61	7.23
Temperature	deg C	27.12	24.62	24.62	23.69	23.69	25.17	25.17	24	24	26.26
Turbidity	NTU	800	413	413	119	119	326	326	800	800	192
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0118 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.225	0.0639	0.0701	0.0487	0.0501	0.0393	0.0497	0.0431	0.0783	0.0427
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.26	2.23	2.22	2.41	2.27	2.90	2.95	3.29	3.68	3.53
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0231	0.0071 J	0.0087 J	0.0055 J	0.0057 J	0.0038 J	0.0052 J	0.0044 J	0.0099 J	0.0034 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0402	0.0089 J	0.0094 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0057 J	< 0.0150 U	0.0138 J	< 0.0150 U
Magnesium - Total	mg/l	4.23 J	1.52	1.60	1.33	1.32	1.38	1.60	1.58	2.19	1.63
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000083 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0206	0.0063 J	0.0075 J	0.0043 J	0.0044 J	0.0038 J	0.0047 J	0.0046 J	0.0075 J	0.0040 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0381	0.0116	0.0140	0.0088	0.0095	0.0060	0.0072	0.0063	0.0139	0.0051
Other											
Hardness (as CaCO3)	mg/l	33.0	11.8	12.2	11.5	11.1	12.9	13.9	14.7	18.2	15.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.019 J	< 0.053 U
Acenaphthylene - Total	ug/l	0.027 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.046 J	< 0.053 U
Anthracene - Total	ug/l	0.057 J	0.029 J	0.025 J	0.019 J	< 0.051 U	< 0.051 U	0.015 J	< 0.051 U	0.12	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	0.16 J	0.012 J	< 0.051 U	0.23	< 0.051 U	< 0.051 U	0.017 J	0.014 J	0.39	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	0.11 J	< 0.051 U	< 0.051 U	0.064	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	0.28	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	0.41 J	0.019 J	0.016 J	0.25	< 0.051 U	< 0.051 U	0.038 J	0.031 J	1.1	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	0.11 J	< 0.051 U	< 0.051 U	0.036 J	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	0.22	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	0.14 J	< 0.051 U	< 0.051 U	0.10	< 0.051 U	< 0.051 U	0.013 J	< 0.051 U	0.34	< 0.053 U
Chrysene - Total	ug/l	0.44 J	0.027 J	0.022 J	0.39	< 0.051 U	< 0.051 U	0.039 J	0.042 J	1.1	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	0.021 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.047 J	< 0.053 U
Fluoranthene - Total	ug/l	0.68 J	0.11	0.062	0.62	0.018 J	< 0.051 U	0.081	0.080	1.8	0.013 J
Fluorene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.020 J	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.14 J	< 0.051 U	< 0.051 U	0.052	< 0.051 U	< 0.051 U	0.013 J	< 0.051 U	0.30	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.038 J
Phenanthrene - Total	ug/l	0.13 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.34	< 0.053 U
Pyrene - Total	ug/l	0.65 J	0.16	0.13	0.52	0.018 J	< 0.051 U	0.072	0.062	1.4	0.013 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/3/2013	6/4/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)053013	WS-007(SURFACE)053113	WS-007(0.5-1.0)053113	WS-007(SURFACE)060113	WS-007(0.5-1.0)060113	WS-007(SURFACE)060213	WS-007(0.5-1.0)060213	WS-007(SURFACE)060313	WS-007(0.5-1.0)060313	WS-007(SURFACE)060413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	5.1	5.0 J	< 5.0 U	< 5.0 U	4.1 J	3.5 J	3.1 J	< 5.0 U	3.2 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	2.7	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.8	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/8/2013	6/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)060413	WS-007(SURFACE)060513	WS-007(0.5-1.0)060513	WS-007(SURFACE)060613	WS-007(0.5-1.0)060613	WS-007(SURFACE)060713	WS-007(0.5-1.0)060713	WS-007(SURFACE)060813	WS-007(0.5-1.0)060813	WS-007(SURFACE)060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	46	46	46	50	50	51	51	38	38	56
Dissolved Oxygen	mg/l	2.56	3.14	3.14	5.07	5.07	1.99	1.99	4.66	4.66	3.01
pH	SU	7.23	7.78	7.78	6.19	6.19	6.52	6.52	5.89	5.89	6.06
Temperature	deg C	26.26	28.11	28.11	28.03	28.03	27.07	27.07	28.13	28.13	26.09
Turbidity	NTU	192	58.9	58.9	534	534	69.2	69.2	28.4	28.4	34.9
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0070 J	< 0.0200 U	0.0108 J	< 0.0200 U	0.0077 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0721	0.0528	0.103	0.0350	0.0776	0.0406	0.138	0.0329	0.0832	0.0365
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00039 J	0.00076 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.85	3.48	3.86	3.37	3.88	3.86	4.82	3.18	3.81	3.57
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0076 J	0.0064 J	0.0123 J	0.0032 J	0.0082 J	0.0037 J	0.0167	0.0025 J	0.0076 J	0.0025 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0123 J	0.0056 J	0.0206	< 0.0150 U	0.0140 J	< 0.0150 U	0.0306	< 0.0150 U	0.0164	0.0096 J
Magnesium - Total	mg/l	2.14	1.89	2.76	1.60	2.32	1.78	3.69	1.51	2.20	1.65
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UJ	< 0.00020 UB	0.000079 J	0.000097 J	0.000077 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0069 J	0.0059 J	0.0101	0.0032 J	0.0077 J	0.0032 J	0.0125	0.0039 J	0.0078 J	0.0039 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0108	0.0082	0.0177	0.0043 J	0.0123	0.0055	0.0243	0.0051	0.0129	0.0044 J
Other											
Hardness (as CaCO3)	mg/l	18.4	16.5	21.0	15.0	19.2	17.0	27.2	14.2	18.6	15.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	0.011 J	0.015 J	0.017 J	0.013 J	< 0.050 U	0.011 J	0.014 J	0.017 J
2-Methylnaphthalene - Total	ug/l	< 0.051 U	0.013 J	0.016 J	0.012 J	0.014 J	0.014 J	< 0.050 U	0.011 J	0.015 J	0.020 J
Acenaphthene - Total	ug/l	0.035 J	0.013 J	0.034 J	< 0.051 U	0.020 J	< 0.051 U	0.017 J	< 0.051 U	0.055	< 0.051 U
Acenaphthylene - Total	ug/l	0.038 J	0.021 J	0.068	< 0.051 U	0.034 J	< 0.051 U	0.036 J	< 0.051 U	0.14	< 0.051 U
Anthracene - Total	ug/l	0.080	0.040 J	0.14	< 0.051 U	0.082	< 0.051 U	0.072	0.024 J	0.30	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	0.37	0.13	0.56	< 0.051 U	0.21	0.013 J	0.22	0.052	1.0	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	0.29	0.12	0.45	< 0.051 U	0.17	0.013 J	0.22	0.041 J	0.92	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.92	0.41	1.5	< 0.051 U	0.64	0.034 J	0.65	0.15	2.7	0.011 J
Benzo(g,h,i)Perylene - Total	ug/l	0.24	0.075	0.25	< 0.051 U	0.13	< 0.051 U	0.17	0.041 J	0.73	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	0.29	0.13	0.49	< 0.051 U	0.21	0.011 J	0.19	0.046 J	0.88	< 0.051 U
Chrysene - Total	ug/l	0.75	0.31	1.2	< 0.051 U	0.50	0.026 J	0.43	0.13	2.6	0.012 J
Dibenz(a,h)Anthracene - Total	ug/l	0.049 J	0.020 J	0.063	< 0.051 U	0.030 J	< 0.051 U	0.040 J	< 0.051 U	0.16	< 0.051 U
Fluoranthene - Total	ug/l	1.8	0.58	2.4	0.014 J	1.1	0.035 J	0.73	0.25	3.2	0.025 J
Fluorene - Total	ug/l	0.029 J	0.012 J	0.030 J	< 0.051 U	0.020 J	< 0.051 U	0.015 J	0.013 J	0.049 J	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.31	0.11	0.36	< 0.051 U	0.14	0.011 J	0.23	0.053	0.88	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	0.50	0.12	0.47	< 0.051 U	0.22	< 0.051 U	0.12	0.083	0.65	< 0.051 U
Pyrene - Total	ug/l	1.5	0.47	1.9	< 0.051 U	0.85	0.033 J	0.65	0.21	2.9	0.020 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/8/2013	6/9/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)060413	WS-007(SURFACE)060513	WS-007(0.5-1.0)060513	WS-007(SURFACE)060613	WS-007(0.5-1.0)060613	WS-007(SURFACE)060713	WS-007(0.5-1.0)060713	WS-007(SURFACE)060813	WS-007(0.5-1.0)060813	WS-007(SURFACE)060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.7 J	3.4 J	3.3 J	3.7 J	3.9 J	4.3 J	3.9 J	3.8 J	3.9 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.5 J	1.1	1.2	0.1 J	3.3	0.2 J	6.8	0.3 J	1.1	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/9/2013	6/10/2013	6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/13/2013	6/13/2013	6/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)060913	WS-007(SURFACE)061013	WS-007(0.5-1.0)061013	WS-007(SURFACE)061113	WS-007(0.5-1.0)061113	WS-007(SURFACE)061213	WS-007(0.5-1.0)061213	WS-007(SURFACE)061313	WS-007(0.5-1.0)061313	WS-007(SURFACE)061413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	56	60	60	61	61	58	58	67	67	93
Dissolved Oxygen	mg/l	3.01	1.28	1.28	1.21	1.21	1.71	1.71	2.62	2.62	1.53
pH	SU	6.06	6.12	6.12	6.23	6.23	6.18	6.18	5.75	5.75	6
Temperature	deg C	26.09	25.27	25.27	26.17	26.17	27.14	27.14	28.02	28.02	27.33
Turbidity	NTU	34.9	40.1	40.1	31.1	31.1	143	143	50.2	50.2	56.8
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0080 J	< 0.0200 U	0.0100 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0804	0.0580	0.0518	0.0379	0.0452	0.0413	0.0538	0.0446	0.127	0.0582
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00042 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	0.00039 J
Calcium - Total	mg/l	4.04	4.21	3.89	3.82	4.00	4.01	4.03	3.84	4.88	4.19
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0087 J	0.0036 J	0.0040 J	0.0018 J	0.0029 J	0.0025 J	0.0041 J	0.0030 J	0.0138 J	0.0024 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0323	0.0120 J	0.0152	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0070 J	< 0.0150 U	0.0231	0.0057 J
Magnesium - Total	mg/l	2.40	1.82	1.96	1.69	1.79	1.89	2.03	1.88	3.38	1.99
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000082 J	< 0.00020 U	< 0.00020 UB	0.000071 J	0.000080 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0073 J	0.0041 J	0.0045 J	0.0032 J	0.0036 J	0.0029 J	0.0048 J	0.0025 J	0.0106	0.0027 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0132	0.0050 J	0.0066	0.0037 J	0.0047 J	0.0041 J	0.0066	0.0044 J	0.0213	0.0047 J
Other											
Hardness (as CaCO3)	mg/l	20.0	18.0	17.8	16.5	17.3	17.8	18.4	17.4	26.1	18.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.019 J	0.019 J	0.022 J	0.018 J	0.015 J	0.018 J	0.018 J	0.013 J	0.020 J	0.018 J
2-Methylnaphthalene - Total	ug/l	0.023 J	0.022 J	0.023 J	0.015 J	0.020 J	0.015 J	0.015 J	0.014 J	0.030 J	0.014 J
Acenaphthene - Total	ug/l	0.041 J	< 0.055 U	0.041 J	< 0.051 U	0.022 J	< 0.051 U	0.020 J	< 0.053 U	0.046 J	0.013 J
Acenaphthylene - Total	ug/l	0.092	< 0.055 U	0.11	< 0.051 U	0.035 J	< 0.051 U	0.026 J	< 0.053 U	0.095	0.015 J
Anthracene - Total	ug/l	0.17	< 0.055 U	0.24	< 0.051 U	0.060	< 0.051 U	0.043 J	0.012 J	0.21	0.026 J
Benzo(a)Anthracene - Total	ug/l	0.56	< 0.055 U	0.47	< 0.051 U	0.16	< 0.051 U	0.12	0.011 J	0.53	0.085
Benzo(a)Pyrene - Total	ug/l	0.50	< 0.055 U	0.48	< 0.051 U	0.15	< 0.051 U	0.12	< 0.053 U	0.46	0.069 J
Benzo(b)Fluoranthene - Total	ug/l	1.5	< 0.055 U	1.6	< 0.051 U	0.49	< 0.051 U	0.40	0.023 J	1.7	0.24
Benzo(g,h,i)Perylene - Total	ug/l	0.44	< 0.055 U	0.39	< 0.051 U	0.12	< 0.051 U	0.11	0.015 J	0.39	0.056
Benzo(k)Fluoranthene - Total	ug/l	0.49	< 0.055 U	0.50	< 0.051 U	0.14	< 0.051 U	0.13	0.013 J	0.49	0.072
Chrysene - Total	ug/l	1.2	< 0.055 U	1.2	< 0.051 U	0.45	< 0.051 U	0.36	0.030 J	1.3	0.22 J
Dibenz(a,h)Anthracene - Total	ug/l	0.13	< 0.055 U	0.083	< 0.051 U	0.032 J	< 0.051 U	0.028 J	< 0.053 U	0.11	0.021 J
Fluoranthene - Total	ug/l	2.1	0.019 J	2.7	0.016 J	0.57	0.016 J	0.59	0.033 J	2.5	0.30
Fluorene - Total	ug/l	0.039 J	0.012 J	0.036 J	0.011 J	0.023 J	< 0.051 U	0.021 J	< 0.053 U	0.044 J	0.012 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.64	< 0.055 U	0.57	< 0.051 U	0.17	< 0.051 U	0.11	< 0.053 U	0.54	0.057
Naphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	0.064	< 0.052 U	< 0.050 U
Phenanthrene - Total	ug/l	0.42	< 0.055 U	0.55	< 0.051 U	0.14	< 0.051 U	0.13	< 0.053 U	0.53	0.076
Pyrene - Total	ug/l	1.9	0.017 J	2.3	0.017 J	0.62	0.012 J	0.54	0.030 J	2.1	0.26
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/9/2013	6/10/2013	6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/13/2013	6/13/2013	6/14/2013
Depths (ft)		0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft
Sample ID		WS-007(0.5-1.0)060913	WS-007(SURFACE)061013	WS-007(0.5-1.0)061013	WS-007(SURFACE)061113	WS-007(0.5-1.0)061113	WS-007(SURFACE)061213	WS-007(0.5-1.0)061213	WS-007(SURFACE)061313	WS-007(0.5-1.0)061313	WS-007(SURFACE)061413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.6 J	3.8 J	4.8 J	4.3 J	3.6 J	3.0 J	< 5.0 U	4.1 J	4.1 J	3.7 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.9	0.2 J	8.6	0.4 J	1.5	0.5 J	1.8	0.1 J	1.9	0.5 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/14/2013	6/15/2013	6/15/2013	6/15/2013	6/16/2013	6/16/2013	6/17/2013	6/17/2013	6/18/2013	6/18/2013
Depths (ft)		0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)061413	WS-007(SURFACE)061513	DUP-WS-41-061513	WS-007(0.5-1.0)061513	WS-007(SURFACE)061613	WS-007(0.5-1.0)061613	WS-007(SURFACE)061713	WS-007(0.5-1.0)061713	WS-007(SURFACE)061813	WS-007(0.5-1.0)061813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	93	62	NA	62	62	62	58	58	56	56
Dissolved Oxygen	mg/l	1.53	1.62	NA	1.62	4.39	4.39	5.85	5.85	4.9	4.9
pH	SU	6	5.95	NA	5.95	5.81	5.81	5.85	5.85	6.29	6.29
Temperature	deg C	27.33	27.26	NA	27.26	28.27	28.27	28.31	28.31	28.71	28.71
Turbidity	NTU	56.8	68.8	NA	68.8	142	142	46.9	46.9	35.4	35.4
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0081 J	0.0068 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.123	0.0599 J	0.0903 J	0.168	0.205	0.0930	0.0356	0.161	0.0318	0.0392
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00077 J	0.00041 J	0.00040 J	0.0010 J	0.00046 J	0.00066 J	< 0.0050 U	< 0.0050 U	0.00039 J	< 0.0050 U
Calcium - Total	mg/l	5.10	4.13 J	4.11	5.47 J	6.15 J	4.76 J	4.05	5.20	3.72	3.80
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0124 J	0.0022 J	0.0024 J	0.0192	0.0039 J	0.0080 J	0.0012 J	0.0178	< 0.0150 U	0.0017 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0356	0.0064 J	0.0071 J	0.0554	0.0116 J	0.0257	< 0.0150 U	0.0380	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.28	1.88	1.95	4.14	2.49	2.76	1.81	4.01	1.66	1.72
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00010 J	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0105	0.0021 J	0.0033 J	0.0152	0.0051 J	0.0078 J	0.0027 J	0.0160	0.0020 J	0.0023 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0188	0.0039 J	0.0049 J	0.0283	0.0065	0.0127	0.0025 J	0.0259	0.0030 J	0.0036 J
Other											
Hardness (as CaCO3)	mg/l	26.2	18.0	18.3	30.7	25.6	23.2	17.6	29.5	16.1	16.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.022 J	0.022 J	0.022 J	0.070	0.028 J	0.034 J	0.025 J	0.037 J	0.026 J	0.026 J
2-Methylnaphthalene - Total	ug/l	0.020 J	0.018 J	0.019 J	0.069	0.025 J	0.037 J	0.020 J	0.040 J	0.021 J	0.021 J
Acenaphthene - Total	ug/l	0.036 J	< 0.051 U	0.013 J	0.33	0.022 J	0.089	0.013 J	0.053	0.017 J	0.025 J
Acenaphthylene - Total	ug/l	0.075	< 0.051 U	< 0.051 U	0.61	0.022 J	0.23	< 0.051 U	0.11	< 0.052 U	0.032 J
Anthracene - Total	ug/l	0.12	0.011 J	0.015 J	1.2	0.040 J	0.71	0.016 J	0.20	< 0.052 U	0.058
Benzo(a)Anthracene - Total	ug/l	0.40	0.012 J	0.018 J	2.7	0.067	1.2	0.013 J	0.43	< 0.052 U	0.17
Benzo(a)Pyrene - Total	ug/l	0.40	< 0.051 U	< 0.051 U	2.5	0.052	0.89	< 0.051 U	0.39	< 0.052 U	0.13
Benzo(b)Fluoranthene - Total	ug/l	1.3	0.039 J	0.049 J	11	0.27	3.7	0.021 J	1.6	< 0.052 U	0.45
Benzo(g,h,i)Perylene - Total	ug/l	0.32	0.011 J	0.011 J	1.1	0.041 J	0.44	< 0.051 U	0.23	< 0.052 U	0.10
Benzo(k)Fluoranthene - Total	ug/l	0.40	0.014 J	0.019 J	3.4	0.090	1.4	0.011 J	0.49	< 0.052 U	0.16
Chrysene - Total	ug/l	0.99	0.055	0.046 J	9.9	0.22	4.6	0.033 J	1.2	< 0.052 U	0.43
Dibenz(a,h)Anthracene - Total	ug/l	0.086	< 0.051 U	< 0.051 U	0.34	0.012 J	0.14	< 0.051 U	0.070	< 0.052 U	0.029 J
Fluoranthene - Total	ug/l	1.7	0.050 J	0.081	24	0.31	4.8	0.067	2.2	0.027 J	0.74
Fluorene - Total	ug/l	0.051	0.011 J	0.015 J	0.38	0.023 J	0.074	0.015 J	0.049 J	0.014 J	0.023 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.33	< 0.051 U	< 0.051 U	1.3	0.040 J	0.50	< 0.051 U	0.26	< 0.052 U	0.10
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.10	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	0.34	0.037 J	0.061	7.8	0.12	1.0	0.049 J	0.57	< 0.052 U	0.19
Pyrene - Total	ug/l	1.6	0.043 J	0.067	20	0.26	4.5	0.052	1.9	0.023 J	0.67
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/14/2013	6/15/2013	6/15/2013	6/15/2013	6/16/2013	6/16/2013	6/17/2013	6/17/2013	6/18/2013	6/18/2013
Depths (ft)		0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)061413	WS-007(SURFACE)061513	DUP-WS-41-061513	WS-007(0.5-1.0)061513	WS-007(SURFACE)061613	WS-007(0.5-1.0)061613	WS-007(SURFACE)061713	WS-007(0.5-1.0)061713	WS-007(SURFACE)061813	WS-007(0.5-1.0)061813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.0 J	1.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.4 J	4.0 J	3.8 J	3.7 J	6.3	5.3	4.8 J	5.4	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	5.1	0.2 J	0.5 J	11	0.4 J	14	0.1 J	8.0	< 0.5 U	0.8
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/19/2013	6/19/2013	6/19/2013	6/20/2013	6/20/2013	6/21/2013	6/21/2013	6/21/2013	6/22/2013	6/22/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)061913	DUP-WS-43-061913	WS-007(0.5-1.0)061913	WS-007(SURFACE)062013	WS-007(0.5-1.0)062013	WS-007(SURFACE)062113	DUP-WS-44-062113	WS-007(0.5-1.0)062113	WS-007(SURFACE)062213	WS-007(0.5-1.0)062213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	62	NA	62	54	54	67	NA	67	67	67
Dissolved Oxygen	mg/l	4.3	NA	4.3	4.26	4.26	3.56	NA	3.56	3.25	3.25
pH	SU	6.54	NA	6.54	6.19	6.19	5.91	NA	5.91	5.8	5.8
Temperature	deg C	30.63	NA	30.63	27.78	27.78	27.58	NA	27.58	29.37	29.37
Turbidity	NTU	111	NA	111	83.6	83.6	201	NA	201	106	106
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	0.0079 J	0.0163 J	< 0.0200 U	< 0.0200 U	0.0118 J	0.0125 J	0.0145 J	0.0103 J	0.0168 J
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0842	0.0687	0.256	0.0322	0.0534	0.115	0.101	0.168	0.0824	0.234
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.00089 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.85	4.77	6.52	4.13	4.37	5.37	5.25	5.52	4.65	6.42
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0044 J	0.0039 J	0.0305	0.0019 J	< 0.0150 U	0.0041 J	0.0044 J	0.0195	0.0026 J	0.0248
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0109 J	0.0086 J	0.0680	< 0.0150 U	0.0085 J	0.0058 J	0.0079 J	0.0405	0.0077 J	0.0735
Magnesium - Total	mg/l	2.50 J	2.34 J	5.94 J	1.80	1.95	2.46	2.45	4.20	2.05	5.18
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.000070 J	< 0.00020 U	0.00013 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000092 J	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0055 J	0.0041 J	0.0257	< 0.0100 U	0.0029 J	0.0042 J	0.0040 J	0.0138	0.0028 J	0.0218
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0084	0.0057	0.0450	0.0022 J	0.0039 J	0.0070	0.0070	0.0288	0.0057	0.0368
Other											
Hardness (as CaCO3)	mg/l	22.4	21.5	40.8	17.7	18.9	23.6	23.2	31.1	20.1	37.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.048 J	0.034 J	0.064	0.019 J	0.027 J	0.032 J	0.031 J	0.093	0.013 J	0.046 J
2-Methylnaphthalene - Total	ug/l	0.052	0.030 J	0.077	0.017 J	0.031 J	0.029 J	0.032 J	0.12	< 0.051 U	0.056
Acenaphthene - Total	ug/l	0.13	0.030 J	0.22	< 0.051 U	0.046 J	0.022 J	0.022 J	0.25	0.012 J	0.15
Acenaphthylene - Total	ug/l	0.30 J	0.063 J	0.80 J	< 0.051 U	0.052 J	0.014 J	< 0.052 U	0.96	< 0.051 U	0.36
Anthracene - Total	ug/l	0.53 J	0.16 J	1.9	0.012 J	0.10	0.084	0.034 J	1.6	< 0.051 U	0.73
Benzo(a)Anthracene - Total	ug/l	1.4 J	0.33 J	2.5	< 0.051 U	0.14	0.12	0.041 J	3.9	0.020 J	2.2
Benzo(a)Pyrene - Total	ug/l	1.2 J	0.24 J	2.3	< 0.051 U	0.12	0.080 J	0.031 J	3.4	0.017 J	2.1
Benzo(b)Fluoranthene - Total	ug/l	4.8 J	0.95 J	9.5	0.026 J	0.54	0.25 J	0.13 J	14	0.073	7.1
Benzo(g,h,i)Perylene - Total	ug/l	0.45 J	0.12 J	0.95	< 0.051 U	0.079	0.037 J	0.019 J	1.5	0.016 J	1.3 J
Benzo(k)Fluoranthene - Total	ug/l	1.9 J	0.30 J	3.0	< 0.051 U	0.17	0.13	0.054	4.6	0.022 J	2.2
Chrysene - Total	ug/l	4.3 J	0.80 J	6.9	0.025 J	0.49	0.43 J	0.13 J	10	0.073	7.3
Dibenz(a,h)Anthracene - Total	ug/l	0.16 J	0.046 J	0.30 J	< 0.051 U	0.024 J	0.014 J	< 0.052 U	0.52	< 0.051 U	0.41
Fluoranthene - Total	ug/l	5.7 J	1.4 J	11	0.032 J	0.63	0.50 J	0.27 J	19	0.13	8.3
Fluorene - Total	ug/l	0.14	0.045 J	0.21	0.014 J	0.039 J	0.025 J	0.041 J	0.24	0.012 J	0.18
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.53 J	0.14 J	1.1	< 0.051 U	0.072	0.029 J	0.014 J	1.8	0.011 J	1.4
Naphthalene - Total	ug/l	0.043 J	< 0.051 U	0.073	< 0.051 U	< 0.052 U	0.046 J	0.044 J	0.11	< 0.051 U	0.042 J
Phenanthrene - Total	ug/l	1.4 J	0.41 J	2.9	0.036 J	0.16	0.20	0.14	3.7	0.056	1.9
Pyrene - Total	ug/l	5.5 J	1.2 J	9.5	0.026 J	0.47	0.39 J	0.23 J	15	0.092	6.9
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/19/2013	6/19/2013	6/19/2013	6/20/2013	6/20/2013	6/21/2013	6/21/2013	6/21/2013	6/22/2013	6/22/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)061913	DUP-WS-43-061913	WS-007(0.5-1.0)061913	WS-007(SURFACE)062013	WS-007(0.5-1.0)062013	WS-007(SURFACE)062113	DUP-WS-44-062113	WS-007(0.5-1.0)062113	WS-007(SURFACE)062213	WS-007(0.5-1.0)062213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 25 U	< 25 U	2.9 J	1.0 J	1.0 J	< 5.0 U	< 5.0 U	1.1 J	< 5.0 U	1.3 J
2-Chlorotoluene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 25 U	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	18 J	19 J	13	5.8	7.0	6.0	7.2	5.4	6.0	6.1
Allyl chloride	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 2.5 U	< 2.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 25 U	< 25 U	5.7	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.7 J	0.6 J	22	< 0.5 U	5.5	0.3 J	0.3 J	6.0	0.2 J	19
trans-1,2-Dichloroethene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/23/2013	6/23/2013	6/23/2013	6/24/2013	6/24/2013	6/25/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)062313	DUP-WS-45-062313	WS-007(0.5-1.0)062313	WS-007(SURFACE)062413	WS-007(0.5-1.0)062413	WS-007(SURFACE)062513	DUP-WS-46-062513	WS-007(0.5-1.0)062513	WS-007(SURFACE)062613	WS-007(0.5-1.0)062613
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	NA	73	39	39	95	NA	95	58	58
Dissolved Oxygen	mg/l	5.65	NA	5.65	4.03	4.03	0.6	NA	0.6	2.38	2.38
pH	SU	5.89	NA	5.89	5.81	5.81	5.58	NA	5.58	5.86	5.86
Temperature	deg C	31.4	NA	31.4	28.33	28.33	29.44	NA	29.44	29.24	29.24
Turbidity	NTU	26.9	NA	26.9	23.8	23.8	22.9	NA	22.9	43.3	43.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0069 J	< 0.0200 U	0.0146 J	< 0.0200 U	0.0192 J	< 0.0200 U	< 0.0200 U	0.0358	< 0.0200 U	0.0592
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0302	0.0294	0.160	0.0586	0.331	0.0373	0.0442	0.588	0.0511	1.49
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0019 J
Calcium - Total	mg/l	3.95	3.87	5.23	4.42	8.87	3.75	4.23	11.2	3.95	28.3
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0164	0.0033 J	0.0386	< 0.0150 U	0.0017 J	0.0599	0.0035 J	0.126
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0407	0.0062 J	0.126	< 0.0150 U	0.0059 J	0.161	0.0095 J	0.368
Magnesium - Total	mg/l	1.69	1.71	3.74	2.20	7.35	1.58	1.81	9.93	1.96	21.4
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00014 J	< 0.00020 U	0.00012 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0022 J	0.0144	0.0038 J	0.0334	0.0016 J	0.0026 J	0.0492	0.0029 J	0.116
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0131 J
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0021 J	0.0022 J	0.0240	0.0044 J	0.0581	0.0025 J	0.0042 J	0.0860	0.0066	0.199
Other											
Hardness (as CaCO3)	mg/l	16.8	16.7	28.5	20.1	52.4	15.9	18.0	68.9	17.9	159
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.018 J	0.023 J	0.032 J	0.016 J	0.042 J	0.017 J	0.015 J	0.021 J	0.016 J	0.13 J
2-Methylnaphthalene - Total	ug/l	0.016 J	0.019 J	0.036 J	0.014 J	0.050 J	0.013 J	0.013 J	0.022 J	0.015 J	0.13 J
Acenaphthene - Total	ug/l	0.017 J	0.012 J	0.038 J	0.016 J	0.12	0.019 J	0.018 J	0.047 J	0.019 J	0.54 J
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	0.062	< 0.051 U	0.42 J	0.021 J	0.019 J	0.089	< 0.051 U	1.4 J
Anthracene - Total	ug/l	0.021 J	< 0.051 U	0.13	0.022 J	0.70	0.042 J	0.035 J	0.15	0.016 J	2.8 J
Benzo(a)Anthracene - Total	ug/l	0.060	0.014 J	0.34	0.058	1.6	0.054	0.041 J	0.43	0.034 J	10 J
Benzo(a)Pyrene - Total	ug/l	0.049 J	< 0.051 U	0.35	0.046 J	1.3	0.046 J	0.037 J	0.37	0.028 J	9.0 J
Benzo(b)Fluoranthene - Total	ug/l	0.16	0.044 J	1.4	0.18	5.1	0.18	0.13	1.3	0.097	31 J
Benzo(g,h,i)Perylene - Total	ug/l	0.023 J	< 0.051 U	0.19 J	0.036 J	0.79	0.026 J	0.018 J	0.35	0.023 J	6.1 J
Benzo(k)Fluoranthene - Total	ug/l	0.051 J	0.015 J	0.41	0.055	1.8	0.065	0.044 J	0.37	0.031 J	9.6 J
Chrysene - Total	ug/l	0.18	0.036 J	1.0	0.14	4.9	0.15	0.10	1.1	0.099	33 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	0.055	< 0.051 U	0.25	< 0.051 UJ	< 0.052 UJ	0.094	< 0.051 U	1.6 J
Fluoranthene - Total	ug/l	0.20 J	0.080 J	1.9	0.25	5.6	0.24	0.23	1.5	0.21	47 J
Fluorene - Total	ug/l	0.018 J	0.013 J	0.044 J	0.018 J	0.085	0.021 J	0.022 J	0.046 J	0.020 J	0.47 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.024 J	< 0.051 U	0.22	0.038 J	0.88	0.027 J	0.016 J	0.35	0.023 J	6.7 J
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.046 J	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 UB	< 0.52 UJ
Phenanthrene - Total	ug/l	0.082	0.050 J	0.40	0.083	1.2	0.10	0.092	0.44	0.10	8.7 J
Pyrene - Total	ug/l	0.16	0.062	1.5	0.19	4.9	0.19	0.16	1.5	0.17	38 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/23/2013	6/23/2013	6/23/2013	6/24/2013	6/24/2013	6/25/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)062313	DUP-WS-45-062313	WS-007(0.5-1.0)062313	WS-007(SURFACE)062413	WS-007(0.5-1.0)062413	WS-007(SURFACE)062513	DUP-WS-46-062513	WS-007(0.5-1.0)062513	WS-007(SURFACE)062613	WS-007(0.5-1.0)062613
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	1.0 J	< 5.0 U	1.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	5.9	5.2	5.3	3.9 J	6.6	4.6 J	3.6 J	6.4	< 5.0 U	6.6
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	2.4	0.3 J	11	0.8	0.4 J	11	1.2	16
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/27/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/29/2013	6/29/2013	6/30/2013	6/30/2013	6/30/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)062713	DUP-WS-47-062713	WS-007(0.5-1.0)062713	WS-007(SURFACE)062813	WS-007(0.5-1.0)062813	WS-007(SURFACE)062913	WS-007(0.5-1.0)062913	WS-007(SURFACE)063013	DUP-WS-48-062913	WS-007(0.5-1.0)063013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	77	NA	77	64	64	59	59	41	NA	41
Dissolved Oxygen	mg/l	0.45	NA	0.45	2.01	2.01	0.85	0.85	2.36	NA	2.36
pH	SU	5.53	NA	5.53	6	6	5.69	5.69	6.23	NA	6.23
Temperature	deg C	30.24	NA	30.24	30.39	30.39	27.01	27.01	25.95	NA	25.95
Turbidity	NTU	24.5	NA	24.5	28.9	28.9	67.5	67.5	68	NA	68
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0358	0.0094 J	< 0.0200 U	0.0071 J	0.0133 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0915	0.0748	0.916	0.173	0.0296	0.0821 J	0.168	0.0314	0.0410 J	0.0360
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0018 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.29	4.68	14.5	4.67	4.21	5.75	6.11	4.03	4.67	4.39
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0025 J	0.0027 J	0.121	0.0070 J	< 0.0150 U	< 0.0150 U	0.0132 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0064 J	0.0078 J	0.238	0.0110 J	< 0.0150 U	< 0.0150 U	0.0281	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.17	2.03	17.4	2.41 J	1.78 J	2.17 J	3.63 J	1.74 J	1.86 J	1.82 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.000070 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0029 J	0.0030 J	0.100	0.0076 J	0.0020 J	0.0036 J	0.0146	0.0018 J	0.0018 J	0.0021 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0124 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0048 J	0.0058	0.170	0.0118	0.0025 J	0.0029 J	0.0203	< 0.0050 U	0.0021 J	0.0021 J
Other											
Hardness (as CaCO3)	mg/l	22.1	20.0	108	21.6	17.8	23.3	30.2	17.2	19.3	18.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.017 J	0.017 J	0.020 J	0.012 J	0.014 J	0.016 J	0.022 J	0.015 J	0.014 J	0.018 J
2-Methylnaphthalene - Total	ug/l	0.015 J	0.015 J	0.027 J	< 0.051 U	0.014 J	0.014 J	0.025 J	0.013 J	0.011 J	0.015 J
Acenaphthene - Total	ug/l	0.020 J	0.024 J	0.022 J	< 0.051 U	0.017 J	< 0.054 U	< 0.051 U	0.013 J	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	0.024 J	0.041 J	0.023 J	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	0.016 J	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	0.047 J	0.073	0.046 J	0.016 J	0.012 J	< 0.054 U	0.022 J	0.034 J	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	0.11 J	0.18	0.091 J	0.030 J	0.014 J	< 0.054 U	0.023 J	0.066	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	0.11 J	0.18	0.090 J	0.027 J	0.012 J	< 0.054 U	0.018 J	0.062	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.45 J	0.71 J	0.43 J	0.10	0.038 J	0.026 J	0.061	0.25 J	0.015 J	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	0.070 J	0.099	0.067 J	0.037 J	0.015 J	< 0.054 U	0.019 J	0.037 J	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	0.13 J	0.21	0.12 J	0.033 J	0.013 J	< 0.054 U	0.034 J	0.082	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	0.34 J	0.53 J	0.29 J	0.086	0.035 J	0.020 J	0.055	0.21	0.017 J	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	0.015 J	0.030 J	0.017 J	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.055 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	0.63 J	0.87 J	0.47 J	0.15	0.046 J	0.031 J	0.099	0.32 J	0.031 J	0.014 J
Fluorene - Total	ug/l	0.026 J	0.029 J	0.026 J	0.011 J	0.022 J	< 0.054 U	0.016 J	0.014 J	0.012 J	0.011 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.076 J	0.11	0.076 J	0.030 J	0.014 J	< 0.054 U	0.020 J	0.037 J	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 UJ	< 0.052 U	< 0.051 UJ	0.20	< 0.051 U	< 0.054 U	< 0.051 U	< 0.055 U	< 0.052 U	0.071
Phenanthrene - Total	ug/l	0.16 J	0.21	0.13 J	0.068	0.044 J	< 0.054 U	0.041 J	0.089	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	0.48 J	0.72 J	0.38 J	0.13	0.041 J	0.027 J	0.082	0.29 J	0.023 J	0.011 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		6/27/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/29/2013	6/29/2013	6/30/2013	6/30/2013	6/30/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)062713	DUP-WS-47-062713	WS-007(0.5-1.0)062713	WS-007(SURFACE)062813	WS-007(0.5-1.0)062813	WS-007(SURFACE)062913	WS-007(0.5-1.0)062913	WS-007(SURFACE)063013	DUP-WS-48-062913	WS-007(0.5-1.0)063013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	1.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.3 J	4.6 J	6.9	4.7 J	4.1 J	4.2 J	3.5 J	4.2 J	3.5 J	4.0 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	3.0	3.0	10	0.3 J	< 0.5 U	< 0.5 U	0.4 J	0.3 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/1/2013	7/1/2013	7/1/2013	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/3/2013	7/4/2013	7/4/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)070113	DUP-WS-49-070113	WS-007(0.5-1.0)070113	WS-007(SURFACE)070213	WS-007(0.5-1.0)070213	WS-007(SURFACE)070313	DUP-WS-50-070313	WS-007(0.5-1.0)070313	WS-007(SURFACE)070413	WS-007(0.5-1.0)070413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	62	NA	62	61	61	59	NA	59	54	54
Dissolved Oxygen	mg/l	6.08	NA	6.08	4.89	4.89	4.75	NA	4.75	5.01	5.01
pH	SU	5.98	NA	5.98	5.81	5.81	5.53	NA	5.53	5.78	5.78
Temperature	deg C	26.54	NA	26.54	23.33	23.33	22.72	NA	22.72	25.35	25.35
Turbidity	NTU	43.5	NA	43.5	29.7	29.7	37.1	NA	37.1	79.6	79.6
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	0.0087 J	0.0350	0.0073 J	< 0.0200 U	0.0071 J	< 0.0200 U	0.0162 J	0.0099 J	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0334	0.0329	0.584	0.0700	0.0397	0.0579	0.0443	0.281	0.124	0.0389
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0020 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00086 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.73	3.61	10.8	6.25 J	4.50 J	4.63	4.54	6.93	5.02	4.18
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0430	0.0046 J	0.0018 J	0.0035 J	0.0022 J	0.0260	0.0038 J	0.0020 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.105	0.0085 J	< 0.0150 U	0.0083 J	0.0056 J	0.0604	0.0067 J	0.0088 J
Magnesium - Total	mg/l	1.62	1.56	7.86	2.24	1.94	2.21	1.99	5.30	2.29	1.88
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00021 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000077 J	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0017 J	0.0018 J	0.0521	0.0100	0.0026 J	0.0040 J	0.0027 J	0.0276	0.0046 J	0.0025 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0030 J	0.0029 J	0.0826	0.0089	0.0039 J	0.0067	0.0037 J	0.0400	0.0079	0.0044 J
Other											
Hardness (as CaCO3)	mg/l	16.0	15.4	59.4	24.9	19.2	20.6	19.5	39.1	22.0	18.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.016 J	0.014 J	0.017 J	0.016 J	0.018 J	0.020 J	0.020 J	0.029 J	0.013 J	0.022 J
2-Methylnaphthalene - Total	ug/l	0.012 J	< 0.055 U	0.019 J	0.013 J	0.020 J	0.022 J	0.018 J	0.042 J	0.016 J	0.031 J
Acenaphthene - Total	ug/l	< 0.055 U	< 0.055 U	0.014 J	< 0.052 U	0.018 J	< 0.052 U	< 0.052 U	0.039 J	< 0.053 U	0.017 J
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.055 U	0.024 J	0.014 J	0.013 J	0.057	< 0.052 U	0.15	0.034 J	0.026 J
Anthracene - Total	ug/l	0.012 J	0.017 J	0.032 J	0.016 J	0.021 J	0.098	0.011 J	0.32	0.099	0.060
Benzo(a)Anthracene - Total	ug/l	0.015 J	0.026 J	0.068 J	0.086	0.031 J	0.15	< 0.052 U	0.42	0.098	0.081
Benzo(a)Pyrene - Total	ug/l	0.015 J	0.024 J	0.073 J	0.052	0.030 J	0.12	< 0.052 U	0.36	0.094	0.061
Benzo(b)Fluoranthene - Total	ug/l	0.051 J	0.095	0.27 J	0.075 J	0.079	0.36 J	< 0.052 UJ	1.1	0.25 J	0.16
Benzo(g,h,i)Perylene - Total	ug/l	0.011 J	0.020 J	0.059 J	0.027 J	0.029 J	0.11	< 0.052 U	0.33	0.071	0.060
Benzo(k)Fluoranthene - Total	ug/l	0.016 J	0.029 J	0.080 J	0.055 J	0.045 J	0.22 J	< 0.052 UJ	0.67	0.13 J	0.10
Chrysene - Total	ug/l	0.048 J	0.11	0.20 J	0.080 J	0.064	0.33 J	< 0.052 UJ	0.97	0.22 J	0.17
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.055 U	0.015 J	0.013 J	0.012 J	0.046 J	< 0.052 U	0.13	0.036 J	0.020 J
Fluoranthene - Total	ug/l	0.064	0.14	0.31 J	0.13 J	0.089	0.69 J	0.020 J	2.0	0.43 J	0.28
Fluorene - Total	ug/l	0.014 J	0.015 J	0.020 J	0.014 J	0.016 J	0.026 J	0.013 J	0.048 J	0.025 J	0.029 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.013 J	0.024 J	0.059 J	0.032 J	0.028 J	0.12	< 0.052 U	0.34	0.087	0.062
Naphthalene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.053 UJ	0.14	0.083	< 0.052 U	0.039 J	< 0.051 U	0.28 J	< 0.052 U
Phenanthrene - Total	ug/l	0.038 J	0.073	0.091 J	0.045 J	0.033 J	0.16	< 0.052 U	0.41	0.16	0.084
Pyrene - Total	ug/l	0.061	0.12	0.28 J	0.094 J	0.091	0.54 J	0.018 J	1.6	0.34 J	0.26
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.6 J	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/1/2013	7/1/2013	7/1/2013	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/3/2013	7/4/2013	7/4/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)070113	DUP-WS-49-070113	WS-007(0.5-1.0)070113	WS-007(SURFACE)070213	WS-007(0.5-1.0)070213	WS-007(SURFACE)070313	DUP-WS-50-070313	WS-007(0.5-1.0)070313	WS-007(SURFACE)070413	WS-007(0.5-1.0)070413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.3	4.9 J	6.2	6.4	< 5.0 U	3.7 J	3.6 J	4.1 J	4.8 J	5.2
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 UB	1.0	2.0 J	0.1 J	< 0.5 U	0.4 J	0.9	0.2 J	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/5/2013	7/5/2013	7/5/2013	7/6/2013	7/6/2013	7/7/2013	7/7/2013	7/7/2013	7/8/2013	7/8/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)070513	DUP-WS-51-070513	WS-007(0.5-1.0)070513	WS-007(SURFACE)070613	WS-007(0.5-1.0)070613	WS-007(SURFACE)070713	DUP-WS-52-070713	WS-007(0.5-1.0)070713	WS-007(SURFACE)070813	WS-007(0.5-1.0)070813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	67	NA	67	60	60	70	NA	70	65	65
Dissolved Oxygen	mg/l	2.38	NA	2.38	2.88	2.88	1.7	NA	1.7	3.43	3.43
pH	SU	6.21	NA	6.21	5.57	5.57	6.17	NA	6.17	5.71	5.71
Temperature	deg C	23.65	NA	23.65	25.06	25.06	25.93	NA	25.93	28.79	28.79
Turbidity	NTU	46.5	NA	46.5	129	129	228	NA	228	136	136
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0095 J	0.0117 J	0.0275	0.0266	0.0292	0.0225	0.0289	0.0130 J	0.0106 J	0.0555
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0990	0.101	0.309	0.310	0.381	0.292 J	0.466 J	0.113	0.0903	1.22
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0015 J	0.0011 J	0.0022 J	0.0011 J	0.0012 J	< 0.0050 U	< 0.0050 U	0.0042 J
Calcium - Total	mg/l	4.92	5.92	8.97	8.62 J	10.5 J	8.35 J	22.8 J	6.50 J	6.03	22.9
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0036 J	0.0029 J	0.0298	0.0063 J	0.0317	0.0042 J	0.0078 J	0.0060 J	0.0038 J	0.128
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0099 J	< 0.0150 U	0.0456	0.0183	0.125	0.0086 J	0.0075 J	0.0177	0.0052 J	0.144
Magnesium - Total	mg/l	2.27	2.75	5.49	4.38 J	6.55 J	4.09 J	7.49 J	2.99 J	2.52	18.5
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.000064 J	< 0.00020 U	0.000086 J	< 0.00020 U	< 0.0010 U	< 0.00020 U	< 0.00020 U	0.00018 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0046 J	0.0039 J	0.0272	0.0087 J	0.0360	0.0060 J	0.0084 J	0.0079 J	0.0070 J	0.146
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0075	0.0071	0.0502	0.0154	0.0510	0.0110	0.0160	0.0116	0.0084	0.212
Other											
Hardness (as CaCO3)	mg/l	21.6	26.1	45.0	39.6	53.2	37.7 J	87.8 J	28.6	25.5	133
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.014 J	0.012 J	0.019 J	0.026 J	0.030 J	0.020 J	0.029 J	0.026 J	0.030 J	0.043 J
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.055 U	0.020 J	0.022 J	0.040 J	0.022 J	0.035 J	0.033 J	0.028 J	0.070
Acenaphthene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	0.017 J	0.028 J	0.038 J	0.046 J	0.014 J	0.034 J
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	< 0.053 U	0.048 J	0.042 J	0.018 J	0.071	0.021 J	0.18
Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	0.047 J	0.11	0.13	0.14	0.12	< 0.053 U	0.18
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	0.021 J	0.043 J	0.14	0.17 J	0.047 J	0.13	0.049 J	0.29
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.055 U	0.029 J	0.026 J	0.12	0.18	0.073	0.12	0.050 J	0.28
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	0.081 J	0.042 J	0.27	0.31 J	0.080 J	0.27	0.15	0.59
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	0.013 J	0.017 J	0.026 J	0.11	0.12	0.052	0.10	0.038 J	0.20
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.055 U	0.026 J	0.028 J	0.15	0.22 J	0.067 J	0.14	0.054	0.46
Chrysene - Total	ug/l	0.012 J	< 0.055 U	0.036 J	0.060	0.26	0.21 J	0.098 J	0.26	0.088 J	0.56
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 UJ	0.044 J	0.050 J	0.20	0.11	0.10	< 0.053 U	0.085
Fluoranthene - Total	ug/l	0.023 J	0.012 J	0.066	0.093	0.41	0.22	0.16	0.29	0.22	0.63
Fluorene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	0.029 J	0.051 J	0.036 J	0.069	0.048 J	0.016 J	0.064
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.055 U	0.013 J	0.028 J	0.10	0.13	0.025 J	0.11	0.026 J	0.25
Naphthalene - Total	ug/l	< 0.051 U	< 0.055 U	< 0.052 U	0.035 J	0.031 J	< 0.052 U	< 0.052 U	0.033 J	< 0.053 U	0.043 J
Phenanthrene - Total	ug/l	0.032 J	< 0.055 U	0.042 J	0.069	0.18	0.17	0.18	0.17	0.14	0.21
Pyrene - Total	ug/l	0.022 J	0.014 J	0.082	0.11	0.42	0.26	0.16	0.36	0.21 J	0.69
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 10 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 UJ	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/5/2013	7/5/2013	7/5/2013	7/6/2013	7/6/2013	7/7/2013	7/7/2013	7/7/2013	7/8/2013	7/8/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)070513	DUP-WS-51-070513	WS-007(0.5-1.0)070513	WS-007(SURFACE)070613	WS-007(0.5-1.0)070613	WS-007(SURFACE)070713	DUP-WS-52-070713	WS-007(0.5-1.0)070713	WS-007(SURFACE)070813	WS-007(0.5-1.0)070813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 50 U	< 50 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 50 U	< 50 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.1 J	3.2 J	3.7 J	10	7.6	< 50 U	< 50 U	6.3	5.4 J	5.4 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 50 U	< 50 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	< 0.5 U	0.9	0.3 J	0.9	< 5.0 U	< 5.0 U	0.5	0.2 J	1.9
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/9/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/11/2013	7/12/2013	7/12/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)070913	DUP-WS-53-070913	WS-007(0.5-1.0)070913	WS-007(SURFACE)071013	WS-007(0.5-1.0)071013	WS-007(SURFACE)071113	DUP-WS-54-071113	WS-007(0.5-1.0)071113	WS-007(SURFACE)071213	WS-007(0.5-1.0)071213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	72	NA	72	64	64	71	NA	71	80	80
Dissolved Oxygen	mg/l	3.51	NA	3.31	3.57	3.57	1.02	NA	1.02	0.44	0.44
pH	SU	6.37	NA	6.37	6.29	6.29	6.9	NA	6.9	5.85	5.85
Temperature	deg C	28.67	NA	28.67	31.79	31.79	27.2	NA	27.2	26.13	26.13
Turbidity	NTU	96	NA	96	146	146	70.9	NA	70.9	103	103
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0090 J	0.0069 J	0.0103 J	< 0.0200 U	0.0351	< 0.0200 U	< 0.0200 U	0.0220	0.0190 J	0.0380
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0377	0.0400	0.0957	0.0552	0.901	0.0659	0.0503	0.438	0.293	0.740
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0023 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0012 J	0.0030 J
Calcium - Total	mg/l	4.71	4.69	5.14	4.81	14.6	4.76	4.66	7.92	8.43 J	12.3 J
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0016 J	< 0.0150 U	0.0102 J	< 0.0150 U	0.0657	< 0.0150 U	< 0.0150 U	0.0399	0.0242	0.0814
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0072 J	0.0054 J	0.174	0.0053 J	0.0053 J	0.111	0.0578	0.174
Magnesium - Total	mg/l	2.09 J	2.03 J	2.98 J	1.97	11.0	2.20	2.07	6.97	5.29 J	12.5 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00032	< 0.00020 U	< 0.00020 U	0.00019 J	0.00011 J	0.00021
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0028 J	0.0030 J	0.0093 J	0.0016 J	0.0790	0.0025 J	0.0017 J	0.0431	0.0299	0.0914
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0105 J
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0037 J	0.0035 J	0.0161 J	0.0050 J	0.128	0.0040 J	0.0043 J	0.0683	0.0429	0.124
Other											
Hardness (as CaCO3)	mg/l	20.3	20.1	25.1	20.1	81.9	20.9	20.2	48.5	42.8	82.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.011 J	< 0.051 U	0.014 J	0.012 J	0.021 J	0.014 J	0.014 J	0.013 J	0.023 J	0.064 J
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.015 J	0.011 J	0.026 J	0.015 J	0.014 J	0.014 J	0.026 J	0.085 J
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	0.019 J	0.011 J	0.023 J	< 0.051 U	< 0.050 U	0.013 J	0.022 J	0.12 J
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	0.012 J	< 0.051 U	0.013 J	< 0.051 U	< 0.050 U	0.014 J	0.018 J	0.14 J
Anthracene - Total	ug/l	< 0.051 U	0.011 J	0.022 J	< 0.051 U	0.020 J	0.014 J	0.015 J	0.026 J	0.023 J	0.17 J
Benzo(a)Anthracene - Total	ug/l	0.013 J	< 0.051 U	0.033 J	0.012 J	0.032 J	0.012 J	0.013 J	0.024 J	0.050 J	0.28 J
Benzo(a)Pyrene - Total	ug/l	0.011 J	< 0.051 U	0.031 J	0.016 J	0.035 J	0.012 J	0.011 J	0.023 J	0.061	0.35 J
Benzo(b)Fluoranthene - Total	ug/l	0.027 J	0.034 J	0.10	0.036 J	0.11	0.018 J	0.017 J	0.055 J	0.16	1.2 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	0.031 J	0.019 J	0.038 J	< 0.051 U	< 0.050 U	0.021 J	0.059	0.35 J
Benzo(k)Fluoranthene - Total	ug/l	0.012 J	0.011 J	0.030 J	0.014 J	0.033 J	0.011 J	0.012 J	0.032 J	0.052	0.36 J
Chrysene - Total	ug/l	0.020 J	0.035 J	0.080	0.016 J	0.080	0.020 J	0.023 J	0.050 J	0.12	0.40 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 UJ	0.015 J	0.074 J
Fluoranthene - Total	ug/l	0.030 J	0.065	0.11	0.040 J	0.13	0.037 J	0.034 J	0.078 J	0.17	0.81 J
Fluorene - Total	ug/l	< 0.051 U	0.012 J	0.016 J	0.012 J	0.022 J	0.011 J	0.013 J	0.014 J	0.028 J	0.13 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.033 J	0.019 J	0.036 J	0.017 J	0.018 J	0.026 J	0.060	0.38 J
Naphthalene - Total	ug/l	0.041 J	< 0.051 U	< 0.050 U	0.042 J	< 0.051 U	0.065	< 0.050 U	< 0.050 UJ	< 0.052 U	0.15 J
Phenanthrene - Total	ug/l	< 0.051 U	0.038 J	0.054	0.031 J	0.056	< 0.051 U	< 0.050 U	0.036 J	0.071	0.29 J
Pyrene - Total	ug/l	0.029 J	0.033 J	0.11	0.034 J	0.12	0.030 J	0.031 J	0.064 J	0.16	0.88 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/9/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/11/2013	7/12/2013	7/12/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)070913	DUP-WS-53-070913	WS-007(0.5-1.0)070913	WS-007(SURFACE)071013	WS-007(0.5-1.0)071013	WS-007(SURFACE)071113	DUP-WS-54-071113	WS-007(0.5-1.0)071113	WS-007(SURFACE)071213	WS-007(0.5-1.0)071213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.3 J	< 5.0 U	3.1 J	5.8	8.1	3.5 J	4.0 J	4.0 J	3.7 J	3.1 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.2 J	0.9	0.3 J	10	0.2 J	0.1 J	4.0	0.6	3.7
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/13/2013	7/13/2013	7/13/2013	7/14/2013	7/14/2013	7/15/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)071313	WS-DUP-55-071313	WS-007(0.5-1.0)071313	WS-007(SURFACE)071413	WS-007(0.5-1.0)071413	WS-007(0.5-1.0)071513	DUP-WS-56-071513	WS-007(0.5-1.0)071613	WS-007(0.5-1.0)071713	WS-007(0.5-1.0)071813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	69	NA	69	76	76	74	NA	85	83	86
Dissolved Oxygen	mg/l	1.89	NA	1.89	1.08	1.08	6.11	NA	4.21	3.46	3.07
pH	SU	5.76	NA	5.76	6.08	6.08	7.25	NA	6.78	6.61	6.78
Temperature	deg C	27.79	NA	27.79	24.33	24.33	32.57	NA	31.55	30.71	37.16
Turbidity	NTU	1000	NA	1000	31.7	31.7	234	NA	107	43.8	800
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0151 J	0.0095 J	0.120	0.0161 J	0.0096 J	< 0.0200 U	< 0.0200 U	0.0069 J	0.0081 J	0.0334
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	0.0177	0.0184	0.0174	0.0214	0.0180
Barium - Total	mg/L	0.167	0.119	2.29	0.163	0.0720	0.0506 J	0.0830 J	0.0692	0.0818	0.425
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0069	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00090 J
Calcium - Total	mg/l	6.19 J	5.51 J	29.9 J	7.34 J	5.29 J	4.18	4.32	4.26	4.37	7.72
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0120 J	0.0069 J	0.281	0.0048 J	0.0038 J	< 0.0150 U	0.0051 J	0.0041 J	< 0.0150 UB	0.0500
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0230	0.0153	0.587	0.0081 J	0.0081 J	0.0052 J	0.0087 J	0.0094 J	0.0119 J	0.108
Magnesium - Total	mg/l	3.43 J	2.88 J	36.0 J	3.20 J	2.53 J	1.95	2.22	2.20	2.31	7.88 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00013 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	0.0015 J	0.0018 J	< 0.0100 U	0.0017 J	0.0021 J
Nickel - Total	mg/L	0.0162	0.0079 J	0.300	0.0059 J	0.0056 J	0.0033 J	0.0060 J	0.0046 J	< 0.0100 UB	0.0507
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0069	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0225	0.0130	0.417	0.0096	0.0077	0.0051	0.0099	0.0101	0.0100	0.0776
Other											
Hardness (as CaCO3)	mg/l	29.6	25.6	223	31.5	23.6	18.5	19.9	19.7	20.4	51.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.090	0.025 J	0.031 J	0.018 J	0.033 J	0.013 J	0.016 J	0.013 J	0.036 J	0.035 J
2-Methylnaphthalene - Total	ug/l	0.11	0.027 J	0.042 J	0.018 J	0.037 J	0.011 J	0.014 J	0.011 J	0.043 J	0.045 J
Acenaphthene - Total	ug/l	0.26 J	0.059 J	0.057 J	0.045 J	0.079	0.013 J	0.027 J	0.011 J	0.091	0.091
Acenaphthylene - Total	ug/l	0.30 J	0.055 J	0.063 J	< 0.053 U	0.16	< 0.052 U	< 0.052 U	< 0.052 U	0.17	0.23
Anthracene - Total	ug/l	0.32 J	0.068 J	0.084 J	0.045 J	0.21	0.011 J	< 0.052 U	< 0.052 U	0.17	0.26
Benzo(a)Anthracene - Total	ug/l	0.58 J	0.12 J	0.11 J	0.032 J	0.23	< 0.052 U	< 0.052 U	< 0.052 U	0.35	0.48
Benzo(a)Pyrene - Total	ug/l	0.67 J	0.14 J	0.11 J	0.020 J	0.41	< 0.052 U	< 0.052 U	< 0.052 U	0.34	0.50
Benzo(b)Fluoranthene - Total	ug/l	2.0 J	0.41 J	0.26 J	0.079 J	1.1	0.014 J	0.017 J	0.023 J	0.70	1.1
Benzo(g,h,i)Perylene - Total	ug/l	0.60 J	0.14 J	0.11 J	0.028 J	0.39	< 0.052 U	< 0.052 U	< 0.052 U	0.34	0.48
Benzo(k)Fluoranthene - Total	ug/l	0.70 J	0.14 J	0.18 J	0.032 J	0.34	< 0.052 U	< 0.052 U	< 0.052 U	0.52	0.77
Chrysene - Total	ug/l	1.2 J	0.17 J	0.23 J	0.064 J	0.33	< 0.052 U	0.011 J	0.018 J	0.70	1.0
Dibenz(a,h)Anthracene - Total	ug/l	0.15 J	0.035 J	0.036 J	< 0.053 U	0.11	< 0.052 U	< 0.052 U	< 0.052 U	0.094	0.14
Fluoranthene - Total	ug/l	1.2 J	0.35 J	0.31 J	0.14 J	0.78	0.040 J	0.042 J	0.039 J	0.66	1.3
Fluorene - Total	ug/l	0.29 J	0.061 J	0.060 J	0.036 J	0.080	0.014 J	0.023 J	0.014 J	0.11	0.10
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.66 J	0.14 J	0.14 J	0.017 J	0.39	< 0.052 U	< 0.052 U	< 0.052 U	0.41	0.60
Naphthalene - Total	ug/l	0.20	0.12	0.12	0.039 J	0.053	< 0.052 UB	< 0.052 UB	< 0.052 UB	< 0.051 UB	< 0.051 UB
Phenanthrene - Total	ug/l	0.54 J	0.14 J	0.094 J	0.14 J	0.25	0.044 J	0.053	0.037 J	0.19	0.32
Pyrene - Total	ug/l	1.3 J	0.36 J	0.29 J	0.11 J	0.77	0.030 J	0.030 J	0.029 J	0.76	1.3
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/13/2013	7/13/2013	7/13/2013	7/14/2013	7/14/2013	7/15/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013
Depths (ft)		0 ft	0 ft	0.5-1 ft	0 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(SURFACE)071313	WS-DUP-55-071313	WS-007(0.5-1.0)071313	WS-007(SURFACE)071413	WS-007(0.5-1.0)071413	WS-007(0.5-1.0)071513	DUP-WS-56-071513	WS-007(0.5-1.0)071613	WS-007(0.5-1.0)071713	WS-007(0.5-1.0)071813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	1.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	1.2 J
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.8 J	4.7 J	6.6	6.4	5.2	3.9 J	4.7 J	3.8 J	5.8	6.8
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	0.2 J	2.8	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	0.7	0.5 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013	7/25/2013	7/26/2013	7/27/2013	7/28/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)071913	WS-007(0.5-1.0)072013	WS-007(0.5-1.0)072113	WS-007(0.5-1.0)072213	WS-007(0.5-1.0)072313	WS-007(0.5-1.0)072413	WS-007(0.5-1.0)072513	WS-007(0.5-1.0)072613	WS-007(0.5-1.0)072713	WS-007(0.5-1.0)072813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	86	84	89	74	58	67	62	62	67	67
Dissolved Oxygen	mg/l	1.78	1.44	1.22	4.53	5.25	2.3	6.08	5.15	6.42	4.05
pH	SU	7.1	6.74	6.65	7.21	6.85	6.45	7.21	6.92	7.37	7.01
Temperature	deg C	25.99	25.79	25.55	25.51	32.97	25.61	28.4	25.12	28.56	26.13
Turbidity	NTU	800	51.6	64.8	154	73.8	80.5	47.4	38.3	57.4	51.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0500	0.0430	0.0201	0.0382	0.010 J	0.0069 J	0.0094 J	0.113	0.0271	0.0219
Barium - Dissolved	mg/l	0.0253	< 0.0205 UB	0.0279	0.0181	0.0190	0.0220	< 0.0170 UB	0.0193	< 0.0115 UB	0.0185
Barium - Total	mg/L	1.02	0.666	0.265	0.683	0.147	0.0379	0.141	2.21	0.389	0.200
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	0.0038 J	0.0017 J	< 0.0050 U	0.0026 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0097	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	17.5	14.5 J	8.79 J	12.7	4.12	3.71 J	4.99	43.6	9.27 J	6.46 J
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.109	0.0677	< 0.0203 UB	0.0734	0.0139 J	< 0.0150 U	0.0107 J	0.259	0.0353	0.0210
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.257	0.170 J	0.0532 J	0.174	0.0374	0.0061 J	0.0432	0.859	0.122	0.0730
Magnesium - Total	mg/l	15.5	11.2 J	4.87 J	11.2 J	2.98	1.62 J	2.90	36.1	6.18 J	4.23 J
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	0.00037	0.00024	< 0.00020 U	0.00016 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0010 U	0.00012 J	0.000061 J
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	0.0020 J	< 0.0100 U	0.0016 J	0.0022 J	0.0024 J	0.0021 J	< 0.0100 U	0.0023 J
Nickel - Total	mg/L	0.109	0.0686	< 0.0230 UB	0.0681	0.0139	0.0022 J	0.0121	0.279	0.0467	0.0244
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0139 J	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	0.0024 J	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0034 J	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.175	0.111 J	0.0382 J	0.110	0.0250	0.0035 J	0.0222	0.380	0.0619	0.0349
Other											
Hardness (as CaCO3)	mg/l	108	82.3	42.0	78.0	22.6	15.9	24.4	257	48.6	33.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.034 J	0.21	0.035 J	0.27 J	0.011 J	0.011 J	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 UJ
2-Methylnaphthalene - Total	ug/l	0.035 J	0.30	0.045 J	0.36 J	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 UJ
Acenaphthene - Total	ug/l	0.098	0.76	0.12 J	0.75	0.019 J	< 0.054 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 UJ
Acenaphthylene - Total	ug/l	0.029 J	2.7	0.33 J	2.2 J	< 0.051 UB	< 0.054 U	< 0.052 U	0.011 J	< 0.052 U	< 0.051 UJ
Anthracene - Total	ug/l	0.041 J	3.4	0.37 J	2.4	< 0.051 UB	< 0.054 U	< 0.052 U	0.020 J	0.014 J	0.016 J
Benzo(a)Anthracene - Total	ug/l	0.067	4.5	0.67 J	4.1	0.035 J	0.014 J	0.013 J	0.021 J	0.019 J	0.023 J
Benzo(a)Pyrene - Total	ug/l	0.068	5.3	0.63 J	4.2	0.033 J	0.011 J	0.011 J	0.022 J	0.016 J	0.017 J
Benzo(b)Fluoranthene - Total	ug/l	0.19	10	1.3 J	9.6	0.11	0.036 J	0.040 J	0.052 J	0.058	0.062 J
Benzo(g,h,i)Perylene - Total	ug/l	0.068	4.5	0.62 J	4.2	0.064	0.013 J	0.014 J	0.022 J	0.038 J	0.021 J
Benzo(k)Fluoranthene - Total	ug/l	0.066	6.5	0.97 J	6.2	0.035 J	0.012 J	0.012 J	0.032 J	0.019 J	0.018 J
Chrysene - Total	ug/l	0.14	8.0	1.1 J	8.2	0.047 J	0.019 J	0.020 J	0.048 J	0.046 J	0.033 J
Dibenz(a,h)Anthracene - Total	ug/l	0.019 J	1.9	0.18 J	1.7	0.011 J	< 0.054 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 UJ
Fluoranthene - Total	ug/l	0.18	8.9	1.2 J	11 J	0.084	0.052 J	0.051 J	0.058 J	0.090	0.11 J
Fluorene - Total	ug/l	0.070	0.75	0.15 J	1.0	0.026 J	< 0.054 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.070	5.7	0.79 J	5.2	0.041 J	0.016 J	0.016 J	0.024 J	0.018 J	0.024 J
Naphthalene - Total	ug/l	0.070	0.47	0.052 J	< 0.50 UB	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 UJ	< 0.052 U	< 0.051 UJ
Phenanthrene - Total	ug/l	0.097	2.4	0.36 J	2.7	0.039 J	< 0.054 U	< 0.052 U	< 0.051 UJ	0.032 J	0.033 J
Pyrene - Total	ug/l	0.17	8.0	1.4 J	10	0.10	0.038 J	0.039 J	0.051 J	0.064	0.077 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013	7/25/2013	7/26/2013	7/27/2013	7/28/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)071913	WS-007(0.5-1.0)072013	WS-007(0.5-1.0)072113	WS-007(0.5-1.0)072213	WS-007(0.5-1.0)072313	WS-007(0.5-1.0)072413	WS-007(0.5-1.0)072513	WS-007(0.5-1.0)072613	WS-007(0.5-1.0)072713	WS-007(0.5-1.0)072813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.5 J	5.1	3.8 J	7.1	4.1 J	3.4 J	5.9	3.8 J	5.4	4.4 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	< 0.5 UB	< 0.5 UB	0.2 J	< 0.5 UB	< 0.5 U	0.4 J	0.3 J	0.2 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013	8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)072913	WS-007(0.5-1.0)073013	WS-007(0.5-1.0)073113	WS-007(0.5-1.0)080113	WS-007(0.5-1.0)080213	WS-007(0.5-1.0)080313	WS-007(0.5-1.0)080413	WS-007(0.5-1.0)080513	WS-007(0.5-1.0)080613	WS-007(0.5-1.0)080713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	71	76	69	29	73	76	76	62	62	71
Dissolved Oxygen	mg/l	4.36	2.49	5.59	2.21	3.67	2.85	1.56	2.99	3.76	3.42
pH	SU	7.05	6.67	7.06	7.09	7.13	6.84	6.71	6.78	6.89	6.96
Temperature	deg C	27.17	26.82	30.13	28.82	27.43	30.87	28.41	28.88	28.82	30.36
Turbidity	NTU	48.3	66.9	31.5	31.1	42.2	50.8	48.8	47	58.7	30.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0092 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0476	0.0228	< 0.0200 U	0.0099 J	0.0095 J	< 0.0200 UB	0.0229	0.0092 J	0.0135 J	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0212 UB	< 0.0236 UB	< 0.0187 UB	< 0.0198 UB	0.0198	0.0189	0.0185	0.0177	0.0204	0.0194
Barium - Total	mg/L	1.09	0.583	< 0.0314 UB	0.0940	0.0810	0.139	0.282	0.0458	0.0488	0.0690
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	0.0030 J	0.0020 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00099 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	16.6	15.8	3.90	4.86	4.84	5.28	6.74	4.07	3.99	4.35
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.106	0.0432	< 0.0150 U	0.0101 J	0.0080 J	0.0161	0.0396	0.0033 J	0.0032 J	0.0067 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.295	0.156	0.0051 J	0.0266	0.0244	0.0481	0.110	0.0072 J	0.0081 J	0.0203
Magnesium - Total	mg/l	16.4	8.26 J	1.76	3.07	2.65	3.81	6.68	1.94	2.03	2.33
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	0.00038	0.000076 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0028 J	0.0016 J	< 0.0100 U	0.0025 J	0.0023 J	0.0022 J	0.0016 J	< 0.0100 U	0.0018 J	0.0021 J
Nickel - Total	mg/L	0.113	0.0706	0.0027 J	0.0105	0.0083 J	0.0162	0.0343	0.0038 J	0.0043 J	0.0062 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.171	0.0746	0.0023 J	0.0142	0.0117	0.0230	0.0521	0.0058	0.0061	0.0087
Other											
Hardness (as CaCO3)	mg/l	109	73.5	17.0	24.8	23.0	28.9	44.3	18.2	18.3	20.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.050 J	0.011 J	< 0.051 U	0.020 J	0.012 J	0.016 J	0.022 J	0.010 J	< 0.059 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	0.075 J	0.012 J	< 0.051 U	0.022 J	0.013 J	0.017 J	0.026 J	0.010 J	< 0.059 U	< 0.051 U
Acenaphthene - Total	ug/l	0.077 J	0.011 J	< 0.051 U	0.016 J	< 0.051 U	< 0.052 U	0.021 J	< 0.047 U	< 0.059 U	< 0.051 U
Acenaphthylene - Total	ug/l	0.54 J	0.020 J	< 0.051 U	0.033 J	0.015 J	0.024 J	0.10	< 0.047 U	< 0.059 U	< 0.051 U
Anthracene - Total	ug/l	0.80 J	0.033 J	< 0.051 U	0.060	0.028 J	0.041 J	0.16	0.015 J	0.016 J	0.013 J
Benzo(a)Anthracene - Total	ug/l	1.4 J	0.071	< 0.051 U	0.14	0.031 J	0.094	0.28	0.011 J	0.014 J	0.016 J
Benzo(a)Pyrene - Total	ug/l	1.2 J	0.073	< 0.051 U	0.15	0.032 J	0.085	0.26	< 0.047 U	< 0.059 U	0.012 J
Benzo(b)Fluoranthene - Total	ug/l	2.7 J	0.26	0.017 J	0.48	0.069	0.30	0.54	0.020 J	0.026 J	0.026 J
Benzo(g,h,i)Perylene - Total	ug/l	1.0 J	0.059	0.020 J	0.14	0.039 J	0.095	0.25	< 0.047 U	< 0.059 U	0.015 J
Benzo(k)Fluoranthene - Total	ug/l	1.7 J	0.081	< 0.051 U	0.16	0.053	0.10	0.41	0.015 J	0.019 J	0.021 J
Chrysene - Total	ug/l	2.8 J	0.13	0.015 J	0.37	0.070	0.23	0.58	0.020 J	0.031 J	0.031 J
Dibenz(a,h)Anthracene - Total	ug/l	0.42 J	0.012 J	< 0.051 U	0.035 J	< 0.051 U	0.024 J	0.060	< 0.047 U	< 0.059 U	< 0.051 U
Fluoranthene - Total	ug/l	3.2 J	0.35	0.032 J	0.60	0.11	0.49	0.92	0.041 J	0.064	0.056
Fluorene - Total	ug/l	0.13 J	0.022 J	0.011 J	0.030 J	0.014 J	0.021 J	0.037 J	< 0.047 U	< 0.059 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	1.3 J	0.081	< 0.051 U	0.18	0.032 J	0.12	0.28	< 0.047 U	0.012 J	0.011 J
Naphthalene - Total	ug/l	< 0.059 UB	< 0.051 U	< 0.051 U	0.036 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.047 U	< 0.059 U	< 0.051 U
Phenanthrene - Total	ug/l	0.79 J	0.090	< 0.051 U	0.14	0.052	0.11	0.26	< 0.047 U	< 0.059 U	< 0.051 U
Pyrene - Total	ug/l	2.8 J	0.24	0.018 J	0.50	0.096	0.37	0.80	0.036 J	0.043 J	0.040 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013	8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)072913	WS-007(0.5-1.0)073013	WS-007(0.5-1.0)073113	WS-007(0.5-1.0)080113	WS-007(0.5-1.0)080213	WS-007(0.5-1.0)080313	WS-007(0.5-1.0)080413	WS-007(0.5-1.0)080513	WS-007(0.5-1.0)080613	WS-007(0.5-1.0)080713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	1.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.2	3.0 J	< 5.0 U	5.1	6.0	9.1	8.7	4.8 J	< 5.0 UB	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.5 J	0.3 J	< 0.5 U	< 0.5 UB	< 0.5 UB	1.8	1.6	< 0.5 UB	< 0.5 UB	0.4 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		8/8/2013	8/9/2013	8/10/2013	8/11/2013	8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)080813	WS-007(0.5-1.0)080913	WS-007(0.5-1.0)081013	WS-007(0.5-1.0)081113	WS-007(0.5-1.0)081213	WS-007(0.5-1.0)081313	WS-007(0.5-1.0)081413	WS-007(0.5-1.0)081513	WS-007(0.5-1.0)081613	WS-007(0.5-1.0)081713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	64	64	67	57	59	51	49	49	32	48
Dissolved Oxygen	mg/l	3.14	2.61	2.13	2.03	1.76	4.07	3.08	3.41	3.45	2.94
pH	SU	7.12	7.28	6.78	6.97	6.49	6.49	6.82	7.06	6.82	6.82
Temperature	deg C	30.22	28.9	28.09	28.03	27.63	27.8	25.42	25.09	23.97	23.78
Turbidity	NTU	34.1	80.3	85	32.4	20.5	17.5	24.5	22.3	12.2	12.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0069 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0119 J	0.0073 J	0.0093 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0186	0.0220	0.0253	0.0223	0.0207	0.0206	0.0230	0.0207	0.0209	0.0201
Barium - Total	mg/L	0.111	0.0488	0.0657	0.0309	0.0255	0.0294	0.0330	0.0293	0.0252	0.0241
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.89	4.30	4.70	4.04	3.88	3.63	3.70	3.59	3.61	3.48
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0120 J	0.0024 J	0.0047 J	< 0.0150 U	< 0.0150 U	0.0019 J	0.0023 J	0.0022 J	0.0017 J	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0326	0.0068 J	0.0145 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.21	1.98	2.41	1.65	1.61	1.55	1.63	1.57	1.55	1.47
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	0.000063 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	0.000061 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0020 J	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	0.0017 J	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0116	0.0033 J	0.0058 J	< 0.0100 U	0.0021 J	0.0019 J	0.0019 J	0.0023 J	0.0016 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0164	0.0048 J	0.0085	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.4	18.9	21.7	16.9	16.3	15.5	16.0	15.4	15.4	14.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.020 J	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	0.013 J	0.017 J	0.014 J	< 0.051 U	0.014 J	< 0.051 U	0.036 J	0.019 J	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	0.020 J	0.017 J	< 0.051 U	0.011 J	< 0.051 U	0.061	0.020 J	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	0.017 J	0.013 J	< 0.051 U	< 0.051 U	< 0.051 U	0.058	0.021 J	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.018 J	0.039 J	0.033 J	< 0.051 U	0.022 J	0.012 J	0.13	0.042 J	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	0.018 J	0.014 J	< 0.051 U	< 0.051 U	< 0.051 U	0.044 J	0.018 J	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	0.014 J	0.028 J	0.020 J	< 0.051 U	0.015 J	< 0.051 U	0.078	0.035 J	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	0.021 J	0.041 J	0.034 J	< 0.051 U	0.024 J	0.012 J	0.14	0.045 J	0.011 J	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	0.044 J	0.070	0.076	< 0.051 U	0.058	0.022 J	0.25	0.084	0.024 J	0.015 J
Fluorene - Total	ug/l	< 0.051 U	0.011 J	0.012 J	< 0.051 U	< 0.051 U	< 0.051 U	0.012 J	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	0.019 J	0.016 J	< 0.051 U	< 0.051 U	< 0.051 U	0.051	0.019 J	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	0.034 J	0.033 J	< 0.051 U	< 0.051 U	< 0.051 U	0.062	0.032 J	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	0.029 J	0.054	0.052	< 0.051 U	0.038 J	0.014 J	0.21	0.086	0.019 J	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.5 J	< 5.0 U	2.4 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		8/8/2013	8/9/2013	8/10/2013	8/11/2013	8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)080813	WS-007(0.5-1.0)080913	WS-007(0.5-1.0)081013	WS-007(0.5-1.0)081113	WS-007(0.5-1.0)081213	WS-007(0.5-1.0)081313	WS-007(0.5-1.0)081413	WS-007(0.5-1.0)081513	WS-007(0.5-1.0)081613	WS-007(0.5-1.0)081713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	6.5	3.4 J	< 5.0 U	3.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 UB	0.7	< 0.5 UB	0.2 J	0.1 J	3.1	0.4 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		8/18/2013	8/19/2013	8/20/2013	8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)081813	WS-007(0.5-1.0)081913	WS-007(0.5-1.0)082013	WS-007(0.5-1.0)082113	WS-007(0.5-1.0)082213	WS-007(0.5-1.0)082313	WS-007(0.5-1.0)082413	WS-007(0.5-1.0)082513	WS-007(0.5-1.0)082613	WS-007(0.5-1.0)082713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	49	50	29	52	55	52	62	69	62	44
Dissolved Oxygen	mg/l	4.77	4.64	2.96	5.46	3.7	4.27	3.06	4.13	4.14	4.07
pH	SU	7.26	8	7.26	8.5	8.25	7.88	7.83	NA	NA	7.04
Temperature	deg C	24.9	26.41	29.71	30.59	35.13	34.47	31.92	29.01	31.02	29.54
Turbidity	NTU	39.6	75.4	23.6	19.4	13.5	8.8	NA	NA	NA	107
Metals											
Arsenic - Dissolved	mg/l	0.0069 J	0.0073 J	0.0068 J	< 0.0200 U	< 0.0200 U	0.0080 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0072 J	0.0083 J	< 0.0200 U	0.0087 J	0.0074 J	0.0073 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0201	< 0.0210 UB	0.0174	< 0.0152 UB	0.0145	0.0133	0.0174	0.0185	0.0153	0.0154
Barium - Total	mg/L	0.0276	0.0440	< 0.0239 UB	< 0.0218 UB	0.0222	0.0180	0.0214	0.0310	0.0339	0.0222
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.77	4.25	3.51	3.51	3.58	3.28	3.45	3.96	4.14	4.15
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0030 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	0.0077 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.60	1.90	1.53	1.51	1.54	1.41	1.47	1.70	1.76	1.70
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	0.0023 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0034 J	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	0.0016 J	0.0029 J	0.0016 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	0.0037 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0031 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	16.0	18.4	15.1	15.0	15.3	14.0	14.7	16.9	17.6	17.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	0.011 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	0.012 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.015 J	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	0.020 J	< 0.050 U	< 0.052 U	0.015 J	< 0.051 U	0.013 J	< 0.051 U	0.021 J	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	0.035 J	< 0.050 U	0.015 J	0.025 J	< 0.051 U	0.012 J	< 0.051 U	0.038 J	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	0.032 J	< 0.050 U	0.014 J	0.023 J	< 0.051 U	0.011 J	< 0.051 U	0.045 J	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	0.018 J	0.072	0.019 J	0.045 J	0.089	< 0.051 U	0.030 J	< 0.051 U	0.14	0.018 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	0.024 J	< 0.050 U	0.016 J	0.030 J	< 0.051 UJ	0.011 J	< 0.051 U	0.040 J	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	0.012 J	0.039 J	0.012 J	0.017 J	0.028 J	< 0.051 U	0.017 J	< 0.051 U	0.049 J	0.015 J
Chrysene - Total	ug/l	0.019 J	0.072	0.019 J	0.025 J	0.050 J	< 0.051 U	0.024 J	< 0.051 U	0.062	0.017 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 UJ	< 0.053 U	< 0.050 U
Fluoranthene - Total	ug/l	0.049 J	0.14	0.031 J	0.064	0.17	0.021 J	0.039 J	< 0.051 U	0.16	0.036 J
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	0.013 J	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	0.029 J	< 0.050 U	0.016 J	0.026 J	< 0.051 UJ	0.014 J	< 0.051 U	0.053	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	0.044 J	< 0.050 U	< 0.052 U	0.061	< 0.051 U	< 0.051 U	< 0.051 U	0.047 J	< 0.050 U
Pyrene - Total	ug/l	0.032 J	0.11	0.026 J	0.057	0.11	0.016 J	0.036 J	< 0.051 U	0.13	0.028 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	2.1 J	< 5.0 U	< 5.0 U	< 5.0 U	1.8 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		8/18/2013	8/19/2013	8/20/2013	8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)081813	WS-007(0.5-1.0)081913	WS-007(0.5-1.0)082013	WS-007(0.5-1.0)082113	WS-007(0.5-1.0)082213	WS-007(0.5-1.0)082313	WS-007(0.5-1.0)082413	WS-007(0.5-1.0)082513	WS-007(0.5-1.0)082613	WS-007(0.5-1.0)082713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.9 J	< 5.0 UB	< 5.0 U	< 5.0 U	4.2 J	3.2 J	3.4 J	< 5.0 U	4.2 J	3.8 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 UB	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)082813	WS-007(0.5-1.0)082913	WS-007(0.5-1.0)083013	WS-007(0.5-1.0)083113	WS-007(0.5-1.0)090113	WS-007(0.5-1.0)090213	WS-007(0.5-1.0)090313	WS-007(0.5-1.0)090413	WS-007(0.5-1.0)090513	WS-007(0.5-1.0)090613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	43	43	57	65	69	70	71	62	70	50
Dissolved Oxygen	mg/l	8.82	7.61	7.79	6.88	6.33	5.91	4.96	7.92	6.89	6.91
pH	SU	7.46	8.26	8.79	8.8	9.02	9.6	9.42	8.54	8.97	8.48
Temperature	deg C	34.01	33.97	36.15	35.9	35.96	34.91	34.41	31.37	30	29.81
Turbidity	NTU	41.4	4.1	14.8	13.7	13.1	14.3	22.3	96	104	24.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0075 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0091 J	< 0.0200 U	< 0.0200 U	0.0488	0.0129 J	0.0165 J	< 0.0200 UB	< 0.0200 U	0.0069 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0140	0.0136	0.0164	0.0199	0.0189	0.0236	0.0161	0.0123	0.0115	0.0048 J
Barium - Total	mg/L	0.0194	0.0179	0.0445	1.06	0.104	0.296	0.127	0.0312	0.0787	0.0208
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0052	< 0.0050 UJ	0.0018 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.03	3.86	3.83	18.3	4.96	7.54	5.70	4.13	5.44	4.67
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0021 J	0.135	0.0108 J	0.0350	0.0087 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0132 J	0.440	0.0309	0.105	0.0404	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.66	1.59	1.79	18.7	3.01	5.94	2.99	1.79	2.07	1.85
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	0.000063 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00044	0.000082 J	0.00015 J	< 0.00020 UB	0.000065 J	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0015 J	< 0.0100 U	0.0037 J	0.146	0.0122	0.0361	0.0101	0.0026 J	0.0031 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0030 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0054	0.192	0.0163	0.0463	0.0155	0.0026 J	0.0027 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	16.9	16.2	16.9	123	24.8	43.3	26.5	17.7	22.1	19.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	0.011 J	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.055 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.055 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	0.014 J	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	0.051 J	0.024 J	0.014 J	0.015 J	0.024 J	< 0.051 U	< 0.052 U	< 0.055 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	0.085	0.035 J	0.020 J	0.017 J	0.026 J	< 0.051 U	< 0.052 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	0.14	0.052	0.041 J	0.043 J	0.053	< 0.051 U	< 0.052 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	0.011 J	< 0.052 U	0.13	0.056	0.043 J	0.048 J	0.058	< 0.051 U	< 0.052 U	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	0.026 J	< 0.052 U	0.37	0.16	0.14	0.15	0.14	0.017 J	< 0.052 U	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	0.011 J	< 0.052 U	0.14	0.059	0.043 J	0.046 J	0.058	< 0.051 U	< 0.052 U	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	0.016 J	< 0.052 U	0.23	0.10	0.048 J	0.052 J	0.10	0.011 J	< 0.052 U	< 0.055 U
Chrysene - Total	ug/l	0.016 J	< 0.052 U	0.43	0.13	0.073	0.080	0.13	0.015 J	< 0.052 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	0.043 J	0.015 J	0.012 J	0.012 J	0.019 J	< 0.051 U	< 0.052 U	< 0.055 U
Fluoranthene - Total	ug/l	0.019 J	0.014 J	0.47	0.20	0.18	0.20	0.20	0.026 J	< 0.052 U	< 0.055 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	0.024 J	0.013 J	0.014 J	0.015 J	0.013 J	< 0.051 U	< 0.052 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.014 J	< 0.052 U	0.18	0.068	0.056	0.060	0.073	< 0.051 U	< 0.052 U	< 0.055 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	0.12	0.061	0.054	0.048 J	0.052	< 0.051 U	< 0.052 U	< 0.055 U
Pyrene - Total	ug/l	0.025 J	< 0.052 U	0.43	0.17	0.15	0.15	0.17	0.019 J	< 0.052 U	< 0.055 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.1 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		8/28/2013	8/29/2013	8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)082813	WS-007(0.5-1.0)082913	WS-007(0.5-1.0)083013	WS-007(0.5-1.0)083113	WS-007(0.5-1.0)090113	WS-007(0.5-1.0)090213	WS-007(0.5-1.0)090313	WS-007(0.5-1.0)090413	WS-007(0.5-1.0)090513	WS-007(0.5-1.0)090613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.4 J	< 5.0 U	3.9 J	< 8.2 UB	< 6.9 UB	< 12 UB	7.2	< 5.0 U	4.5 J	5.6
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 UB	< 0.5 UB	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		9/7/2013	9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)090713	WS-007(0.5-1.0)090813	WS-007(0.5-1.0)090913	WS-007(0.5-1.0)091013	WS-007(0.5-1.0)091113	WS-007(0.5-1.0)091213	WS-007(0.5-1.0)091313	WS-007(0.5-1.0)091413	WS-007(0.5-1.0)091513	WS-007(0.5-1.0)091613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	52	52	55	50	51	53	54	54	53	57
Dissolved Oxygen	mg/l	5.88	6.29	5.41	5.3	5.35	3.65	3.28	4.25	5.81	2.4
pH	SU	8.71	8.41	8.45	8.07	8.01	8.31	7.58	8.09	8.32	8.64
Temperature	deg C	30.02	29.68	30.38	30.29	30.31	32.69	28.2	25.25	25.8	25.53
Turbidity	NTU	22.9	48.6	14.5	101	18.2	20.5	88.1	67.5	41.1	142
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0071 J	< 0.0200 U	0.0133 J	< 0.0200 U	0.0291	< 0.0200 U	0.0124 J	0.0235	< 0.0200 U	0.0069 J
Barium - Dissolved	mg/l	0.0124	0.0124	0.0123	0.0193	< 0.0158 UB	0.0214	0.0202	0.0188	0.0190	0.0219
Barium - Total	mg/L	0.0412	0.0311	0.186	0.0594	0.403	0.0682	0.205	0.409	0.0438	0.0493
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00099 J	< 0.0050 U	0.0012 J	0.0017 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.19	4.29	6.44	5.06	11.3	4.82	7.67	9.63	4.82	4.65
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0019 J	< 0.0150 U	0.0023 J	0.0393	0.0029 J	0.0218	0.0495	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0103 J	0.125	0.0066 J	0.0566	0.105	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.07	1.90	2.35	2.10	6.75	2.14	4.88	8.41	2.01	1.98
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00018 J	< 0.00020 U	0.000082 J	0.00020 J	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	0.0015 J
Nickel - Total	mg/L	0.0015 J	0.0018 J	0.0030 J	0.0033 J	0.0393	0.0043 J	0.0223	0.0471	0.0019 J	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0026 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	0.0029 J	0.0027 J	0.0049 J	0.0533	0.0042 J	0.0316	0.0686	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	21.5	18.5	25.7	21.3	56.1	20.8	39.2	58.7	20.3	19.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.057 U	0.027 J	0.025 J	0.011 J	0.013 J	0.011 J	0.012 J	0.013 J
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.057 U	0.027 J	0.023 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	0.026 J	< 0.057 U	0.068	0.056	0.042 J	0.024 J	0.041 J	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	0.054 J	< 0.057 U	0.12	0.13	0.028 J	0.075	0.080	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	0.060	< 0.057 U	0.15	0.17	0.026 J	0.087	0.079	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	0.093	< 0.057 U	0.26	0.25	0.051	0.14	0.18	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	0.11	< 0.057 U	0.27	0.29	0.054	0.17	0.23	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	0.28	< 0.057 U	0.80	0.98	0.17	0.66	0.70	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	0.12	< 0.057 U	0.28	0.29	0.053	0.17	0.25	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	0.17	< 0.057 U	0.26	0.28	0.059	0.23	0.24	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	0.20	< 0.057 U	0.59	0.66	0.077	0.38	0.46	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	0.031 J	< 0.057 U	0.082	0.086	0.014 J	0.050 J	0.056	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	0.26	< 0.057 U	0.60	0.79	0.14	0.65 J	0.48	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	0.024 J	< 0.057 U	0.055	0.059	0.029 J	0.028 J	0.035 J	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	0.14	< 0.057 U	0.33	0.36	0.067	0.21	0.34	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 UB	< 0.051 U	< 0.11 UB	< 0.050 U	0.031 J	< 0.053 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	0.079	< 0.057 U	0.17	0.19	0.063	0.13	0.10	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	0.25	< 0.057 U	0.61	0.79	0.17	0.51	0.59	< 0.053 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.4 J	< 5.0 U	1.6 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		9/7/2013	9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)090713	WS-007(0.5-1.0)090813	WS-007(0.5-1.0)090913	WS-007(0.5-1.0)091013	WS-007(0.5-1.0)091113	WS-007(0.5-1.0)091213	WS-007(0.5-1.0)091313	WS-007(0.5-1.0)091413	WS-007(0.5-1.0)091513	WS-007(0.5-1.0)091613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 6.5 UB	4.5 J	5.3	5.5	8.9	6.0	4.3 J	4.9 J	< 5.0 U	4.6 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	0.1 J	< 0.5 UB	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013	9/26/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)091713	WS-007(0.5-1.0)091813	WS-007(0.5-1.0)091913	WS-007(0.5-1.0)092013	WS-007(0.5-1.0)092113	WS-007(0.5-1.0)092213	WS-007(0.5-1.0)092313	WS-007(0.5-1.0)092413	WS-007(0.5-1.0)092513	WS-007(0.5-1.0)092613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	56	53	55	55	56	48	55	61	68	58
Dissolved Oxygen	mg/l	3.08	1.38	2.27	3.1	2.01	2.88	2.88	2.61	2.27	3.19
pH	SU	8.23	8.36	8.24	8.13	8.02	8.34	8.23	8.32	7.93	8.95
Temperature	deg C	26.67	26.05	28.36	26.62	23.56	22.64	23.79	23.7	24.19	25.37
Turbidity	NTU	103	1000	79.5	96	97	83.9	61.4	60.3	13.4	34.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0090 J	< 0.0200 U	0.0074 J	0.0078 J	0.0084 J	< 0.0200 U	0.0076 J	< 0.0200 U	0.0081 J	0.0080 J
Barium - Dissolved	mg/l	0.0213	0.0220	0.0200	< 0.0220 UB	0.0251	0.0241	0.0238	0.0181	0.0230	0.0219
Barium - Total	mg/L	0.0456	0.0313	0.0781	0.0407	0.0372	0.0342	0.0419	0.0330	0.0652	0.0334
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00093 J	< 0.0050 U
Calcium - Total	mg/l	5.08	4.43	4.90	4.64	4.61	4.63	4.68	4.45	5.07	4.61
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0024 J	< 0.0150 U	0.0026 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0042 J	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0068 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0083 J	< 0.0150 U
Magnesium - Total	mg/l	2.19	1.85	2.08	1.95	1.92	1.91	2.00	1.85	2.21	1.93
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J
Nickel - Total	mg/L	0.0028 J	0.0017 J	0.0035 J	0.0028 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0020 J	0.0054 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0032 J	< 0.0050 U	0.0043 J	0.0022 J	< 0.0050 U	< 0.0050 U	0.0027 J	< 0.0050 U	0.0051	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	21.7	18.7	20.8	19.6	19.4	19.4	19.9	18.7	21.8	19.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.014 J	< 0.051 U	0.017 J	0.017 J	0.027 J	0.021 J	0.016 J	0.014 J	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.019 J	< 0.057 U	0.012 J	0.012 J	0.015 J	< 0.053 U	< 0.051 U	0.011 J
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 UB	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 UB	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 UB	< 0.057 U	< 0.051 U	< 0.052 U	0.014 J	< 0.053 U	< 0.051 U	0.011 J
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 UB	< 0.057 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	7.9	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013	9/26/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)091713	WS-007(0.5-1.0)091813	WS-007(0.5-1.0)091913	WS-007(0.5-1.0)092013	WS-007(0.5-1.0)092113	WS-007(0.5-1.0)092213	WS-007(0.5-1.0)092313	WS-007(0.5-1.0)092413	WS-007(0.5-1.0)092513	WS-007(0.5-1.0)092613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.0	3.8 J	4.1 J	3.7 J	< 5.0 U	4.1 J	< 5.0 U	7.4	5.6	< 5.1 UB
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	0.2 J	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013	10/5/2013	10/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)092713	WS-007(0.5-1.0)092813	WS-007(0.5-1.0)092913	WS-007(0.5-1.0)093013	WS-007(0.5-1.0)100113	WS-007(0.5-1.0)100213	WS-007(0.5-1.0)100313	WS-007(0.5-1.0)100413	WS-007(0.5-1.0)100513	WS-007(0.5-1.0)100613
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	56	50	57	60	58	62	58	60	58	NA
Dissolved Oxygen	mg/l	5.68	5.14	1.69	1.73	1.68	1.56	4.55	3.35	4.11	NA
pH	SU	8.93	8.4	7.78	7.8	7.78	7.84	7.82	8.23	7.98	NA
Temperature	deg C	25.71	26.13	25.47	25.5	25.78	25.84	26.6	27.61	27.22	NA
Turbidity	NTU	49.9	31.3	41.2	60.3	54.1	60.1	348	188	72.1	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0270	0.0608	< 0.0200 U	< 0.0200 U	0.0072 J	< 0.0200 U	0.0073 J	0.0105 J	< 0.0200 UB	< 0.0200 U
Barium - Dissolved	mg/l	0.0173	0.0288	0.0246	0.0271	0.0220	0.0165	0.0158	0.0210	0.0047 J	0.0210
Barium - Total	mg/L	0.349	1.55	0.0403	0.0475	0.0514	0.0690	0.0475	0.0669	0.0143	0.0584
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	0.0012 J	0.0012 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	8.40	37.7	4.68	5.47	4.85	5.25	5.05	5.21	2.17	5.17
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0419	0.167	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0046 J	0.0032 J	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0528	0.247	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0077 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	5.63	19.8	1.99	2.21	1.97	2.13	2.09	2.37	0.987	2.49
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 UB	0.00038	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	0.0025 J	< 0.0100 U	0.0020 J	< 0.0100 U	< 0.0100 U	0.0029 J	0.0015 J	< 0.0100 U
Nickel - Total	mg/L	0.0472	0.214	0.0022 J	0.0023 J	0.0020 J	0.0022 J	0.0028 J	0.0054 J	0.0043 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	0.0211	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	0.0045 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0633	0.260	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0072	0.0027 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	44.2	176	19.9	22.7	20.2	21.9	21.2	22.8	9.5	23.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.019 J	0.037 J	< 0.050 U	0.014 J	0.013 J	< 0.055 U	0.014 J	< 0.051 U	< 0.055 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	0.020 J	0.055	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	0.011 J	< 0.051 U	< 0.055 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	0.013 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	0.027 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	0.012 J	0.031 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	0.031 J	0.079	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	0.017 J	0.045 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	0.026 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Chrysene - Total	ug/l	0.023 J	0.11	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Fluoranthene - Total	ug/l	0.028 J	0.069	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	0.011 J	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	0.023 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	0.014 J	< 0.051 U	< 0.055 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.012 J	0.028 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	0.046 J	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	0.055	< 0.055 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	0.064	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.052 U
Pyrene - Total	ug/l	0.024 J	0.061	< 0.050 U	< 0.051 U	< 0.062 U	< 0.055 U	< 0.051 U	< 0.051 U	0.011 J	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	2.5 J	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013	10/5/2013	10/6/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)092713	WS-007(0.5-1.0)092813	WS-007(0.5-1.0)092913	WS-007(0.5-1.0)093013	WS-007(0.5-1.0)100113	WS-007(0.5-1.0)100213	WS-007(0.5-1.0)100313	WS-007(0.5-1.0)100413	WS-007(0.5-1.0)100513	WS-007(0.5-1.0)100613
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	1.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	6.7	8.6	4.5 J	< 5.0 U	3.0 J	< 5.0 UJ	4.3 J	4.5 J	4.5 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.6	0.4 J	< 0.5 U	< 0.5 UB	< 0.5 U	0.1 J	< 0.9 UB	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)100713	WS-007(0.5-1.0)100813	WS-007(0.5-1.0)100913	WS-007(0.5-1.0)101013	WS-007(0.5-1.0)101113	WS-007(0.5-1.0)101213	WS-007(0.5-1.0)101313	WS-007(0.5-1.0)101413	WS-007(0.5-1.0)101513	WS-007(0.5-1.0)101613
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	67	73	79	78	78	73	69	84
Dissolved Oxygen	mg/l	NA	NA	2.67	2.27	2.48	3.12	1.64	1.42	1.82	1.41
pH	SU	NA	NA	6.97	6.26	6.97	7.03	6.93	7.02	7.11	6.71
Temperature	deg C	NA	NA	21.08	18.57	22.84	23.25	20.81	20.87	20.71	18.46
Turbidity	NTU	NA	NA	71.3	201	19.1	27.1	157	101	17.1	629
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	0.0080 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0152 J	0.0082 J	0.0078 J	0.0161 J	0.0068 J	0.0108 J	0.0101 J
Barium - Dissolved	mg/l	0.0219	0.0233	0.0221	0.0248	0.0268	0.0236	0.0235	0.0228	0.0331	0.0381
Barium - Total	mg/L	0.0339	0.0366	0.0353	0.220	0.0482	0.0550	0.160	0.0551	0.0468	0.0515
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0013 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.47	4.71	4.60	7.70	5.00	5.22	7.46	4.98	4.98	5.31
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0274	< 0.0150 U	0.0016 J	0.0179	0.0025 J	< 0.0150 U	0.0016 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0326	< 0.0150 U	0.0061 J	0.0336	0.0066 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.90	2.02	1.96	4.57	2.13	2.21	3.76	2.23	2.13	2.38
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000063 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	0.0022 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0021 J	0.0286	0.0028 J	0.0034 J	0.0193	0.0048 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0363	0.0027 J	0.0040 J	0.0250	0.0034 J	< 0.0050 U	0.0022 J
Other											
Hardness (as CaCO3)	mg/l	19.0	20.1	19.5	38.0	21.3	22.2	34.1	21.6	21.2	23.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	0.013 J	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	0.012 J	0.011 J	< 0.051 U	< 0.051 U	0.015 J	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	0.015 J	< 0.051 U	< 0.051 U	0.015 J	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	0.011 J	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	0.015 J	< 0.051 U	< 0.051 U	0.017 J	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	0.011 J	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.050 UB	< 0.051 U	0.064	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 UB	< 0.050 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U	0.015 J	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.9 J	1.5 J	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013	10/14/2013	10/15/2013	10/16/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)100713	WS-007(0.5-1.0)100813	WS-007(0.5-1.0)100913	WS-007(0.5-1.0)101013	WS-007(0.5-1.0)101113	WS-007(0.5-1.0)101213	WS-007(0.5-1.0)101313	WS-007(0.5-1.0)101413	WS-007(0.5-1.0)101513	WS-007(0.5-1.0)101613
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	4.8 J	4.0 J	4.0 J	< 5.8 UB	5.4	4.5 J	4.6 J	5.8	3.9 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	2.0	< 0.5 U	0.3 J	< 0.5 UB	0.2 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013	10/26/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)101713	WS-007(0.5-1.0)101813	WS-007(0.5-1.0)101913	WS-007(0.5-1.0)102013	WS-007(0.5-1.0)102113	WS-007(0.5-1.0)102213	WS-007(0.5-1.0)102313	WS-007(0.5-1.0)102413	WS-007(0.5-1.0)102513	WS-007(0.5-1.0)102613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	80	86	84	82	78	80	73	80	72	82
Dissolved Oxygen	mg/l	2.02	0.98	0.65	2.3	2.37	2.25	1.57	1.55	3.72	5.2
pH	SU	7.31	6.87	6.94	6.87	6.61	6.23	6.27	6.24	6.48	6.33
Temperature	deg C	19.51	15.87	16.38	13.67	18.62	17.19	15.67	15.66	14.76	12.34
Turbidity	NTU	563	470	20.4	338	71.2	214	271	256	258	131
Metals											
Arsenic - Dissolved	mg/l	0.0068 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0084 J	0.0081 J	0.0112 J	0.0130 J	0.0088 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0073 J
Barium - Dissolved	mg/l	0.0261	0.0219	0.0244	0.0312	0.0277	0.0299	0.0269	0.0262	0.0236	0.0231
Barium - Total	mg/L	0.0600	0.0830	0.0645	0.0486	0.0525	0.0411	0.0384	0.0388	0.0352	0.0350
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0015 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.24	5.39	5.31	5.41	4.58	4.52	4.36	4.33	4.12	4.47
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0079 J	0.0040 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0057 J	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0058 J	0.0088 J	0.0065 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0063 J	0.0051 J	0.0058 J
Magnesium - Total	mg/l	2.26	2.69	2.44	2.07	1.93	1.94	1.89	1.88	1.80	1.95
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0023 J	0.0098 J	0.0045 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0020 J	< 0.0100 U	0.0018 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0038 J	0.0092	0.0055	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0025 J	0.0023 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	22.4	24.5	23.3	22.0	19.4	19.3	18.7	18.5	17.7	19.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	0.013 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	0.012 J	0.019 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.021 J	0.023 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	0.011 J	0.012 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	0.015 J	0.018 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	0.020 J	0.022 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.050 U	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UB
Naphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	0.016 J	0.020 J	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.8 J	< 5.0 U	1.8 J	3.9 J	1.8 J	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	2.7 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013	10/23/2013	10/24/2013	10/25/2013	10/26/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)101713	WS-007(0.5-1.0)101813	WS-007(0.5-1.0)101913	WS-007(0.5-1.0)102013	WS-007(0.5-1.0)102113	WS-007(0.5-1.0)102213	WS-007(0.5-1.0)102313	WS-007(0.5-1.0)102413	WS-007(0.5-1.0)102513	WS-007(0.5-1.0)102613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.2 J	4.2 J	3.3 J	< 5.0 U	3.1 J	3.1 J	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.3 J	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013	4/8/2013	4/9/2013	4/10/2013	4/11/2013	4/12/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-007(0.5-1.0)102713	WS-007(0.5-1.0)102813	WS-007(0.5-1.0)102913	WS-007(0.5-1.0)103013	WS-007(0.5-1.0)103113	WS-008(SURFACE)040813	WS-008(SURFACE)040913	WS-008(SURFACE)041013	WS-008(SURFACE)041113	WS-008(SURFACE)041213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	95	81	80	69	143	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	1.52	1.22	1.83	2.39	5.02	NA	NA	NA	NA	NA
pH	SU	6.58	6.41	6.3	6.31	6.29	NA	NA	NA	NA	NA
Temperature	deg C	13.59	14.69	14.94	17.44	19.79	NA	NA	NA	NA	NA
Turbidity	NTU	171	276	274	284	131	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	0.0092 J	< 0.0200 U	0.0069 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0116 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0222	0.0189	0.0199	0.0151	0.0256	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0297	0.0293	0.0411	0.0361	0.0333	0.155	0.0347	0.0362	0.144	0.0395
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 U
Calcium - Total	mg/l	4.12	4.43	4.26	4.11	6.07	6.18	2.93	5.24	4.78	3.25
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0020 J	< 0.0150 U	< 0.0150 U	0.0115 J	0.0043 J	0.0022 J	0.0308	0.0042 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0050 J	0.0098 J	< 0.0150 U	0.0063 J	0.0142 J	< 0.0150 U	< 0.0150 U	0.0224	< 0.0150 U
Magnesium - Total	mg/l	1.87	2.04	2.04	1.90	3.09	3.55	2.10	2.82	4.24 J	2.14
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000082 J
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0016 J	0.0035 J	0.0017 J	0.0026 J	0.0104	0.0041 J	< 0.0100 UB	0.0223	0.0043 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0032 J	0.0021 J	0.0022 J	0.0198	0.0043 J	0.0048 J	0.0264	0.0048 J
Other											
Hardness (as CaCO3)	mg/l	18.0	19.5	19.0	18.1	27.9	30.0	16.0	24.7	29.4	16.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	4.4	0.45	2.5	5.5	0.29
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	5.5	0.40	2.6	7.2	0.30
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.25	0.060	0.12	0.30	0.018 J
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.14	0.026 J	< 0.052 U	0.22	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.17	0.048 J	0.018 J	0.24	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.15	0.029 J	< 0.052 U	0.31	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.093	0.020 J	< 0.052 U	0.23	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.13	0.025 J	0.011 J	0.52	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.17	0.032 J	0.015 J	0.31	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.024 J	< 0.053 U	< 0.052 U	0.075	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.40	0.078	0.036 J	0.78	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.039 J	< 0.053 U	< 0.052 U	0.060	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.11	0.026 J	0.021 J	0.21	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	0.013 J	< 0.052 U	< 0.051 U	< 0.050 U	0.82	0.22	0.36	0.93	0.065
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.052	< 0.053 U	< 0.052 U	0.11	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	2.5	0.21	1.4	2.4	0.18
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	1.7	0.29	0.37	1.8	0.088
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.050 U	0.37	0.095	0.061	0.82	0.016 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.4 J	NA	< 5.0 U	NA	< 5.4 UB	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	17	1.0	14	29	0.8
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013	4/8/2013	4/9/2013	4/10/2013	4/11/2013	4/12/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-007(0.5-1.0)102713	WS-007(0.5-1.0)102813	WS-007(0.5-1.0)102913	WS-007(0.5-1.0)103013	WS-007(0.5-1.0)103113	WS-008(SURFACE)040813	WS-008(SURFACE)040913	WS-008(SURFACE)041013	WS-008(SURFACE)041113	WS-008(SURFACE)041213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	7.8	0.7	8.3	13	0.5
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	1.1	< 0.5 U	0.4 J	1.5	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.0	< 5.0 U	< 10 U	4.3 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	25	2.2	24	30	2.4
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.8	0.1 J	0.2 J	< 1.0 U	0.2 J
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	2.9	0.6	0.8	0.6 J	0.8
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	1.6	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	11	0.7	10	18	0.6
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	2.2	0.1 J	1.6	3.7	0.1 J
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	1.4	< 0.5 U	0.3 J	1.6	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	3.6	0.2 J	1.6	5.3	0.1 J
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	1.2	< 0.5 U	0.7	1.8	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	54	3.8	66	93 D	4.5
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	67	4.7	83	130	5.0

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		4/13/2013	4/14/2013	4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013	4/21/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)041313	WS-008(SURFACE)041413	WS-008(SURFACE)041513	WS-008(SURFACE)041613	WS-008(SURFACE)041713	WS-008(SURFACE)041813	WS-008(SURFACE)041913	WS-DUP-09-041913	WS-008(SURFACE)042013	WS-008(SURFACE)042113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0094 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.158	0.182	0.0288	0.116	0.0513	0.0524	0.0831	0.0688	0.0576 J	0.0307
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	0.00037 J	0.00043 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 U
Calcium - Total	mg/l	4.95	5.64	4.77	6.93	6.04	7.49	4.79	4.62	4.69 J	4.78
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0292	0.0221	0.0019 J	0.0184	0.0053 J	0.0060 J	0.0095 J	0.0071 J	0.0061 J	0.0013 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0202	0.0269	< 0.0150 U	0.0302	< 0.0150 U	< 0.0150 U	0.0080 J	0.0082 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	5.31	4.44 J	2.35	4.47	2.95	3.20	3.31	2.98	2.73	2.64
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	0.000076 J	< 0.00020 U	0.000078 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0265	0.0217	0.0026 J	0.0147	0.0052 J	0.0054 J	0.0088 J	0.0068 J	0.0061 J	0.0038 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0324	0.0327	0.0029 J	0.0301	0.0072	0.0080	0.0123	0.0074	0.0099	0.0025 J
Other											
Hardness (as CaCO3)	mg/l	34.2	32.4	21.6	35.7	27.2	31.9	25.6	23.8	22.9	22.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	3.2 J	0.097 J	0.060	0.090	< 0.051 U	0.022 J	0.048 J	0.035 J	0.031 J	< 0.051 U
2-Methylnaphthalene - Total	ug/l	3.9 J	0.067	0.049 J	0.050 J	< 0.051 U	0.020 J	0.046 J	0.032 J	0.027 J	< 0.051 U
Acenaphthene - Total	ug/l	0.25	0.025 J	0.013 J	0.018 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	0.13 J	0.011 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.014 J	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	0.13 J	0.014 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	0.099 J	0.011 J	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.012 J	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.18 J	0.018 J	< 0.052 U	< 0.051 U	< 0.051 U	0.011 J	0.018 J	0.025 J	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	0.18	0.015 J	< 0.052 U	< 0.051 U	< 0.051 U	0.011 J	0.014 J	0.019 J	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	0.035 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	0.41 J	0.039 J	0.015 J	0.016 J	< 0.051 U	0.016 J	0.023 J	0.027 J	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	0.031 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	0.13 J	0.026 J	0.019 J	0.014 J	< 0.051 U	0.013 J	0.013 J	0.016 J	0.014 J	< 0.051 U
Fluorene - Total	ug/l	0.76 J	0.091	0.042 J	0.068 J	< 0.051 U	0.021 J	0.028 J	0.025 J	0.025 J	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.091	0.014 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.012 J	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	1.6	0.061	0.051 J	0.065	< 0.051 U	0.032 J	0.045 J	0.038 J	0.047 J	< 0.051 U
Phenanthrene - Total	ug/l	1.2 J	0.072 J	0.059	0.036 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	0.43 J	0.056	0.028 J	0.030 J	0.016 J	0.029 J	0.029 J	0.034 J	0.020 J	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	1.7 J	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	14	1.9	0.2 J	2.1	0.2 J	0.2 J	0.5 J	0.5 J	0.2 J	0.1 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		4/13/2013	4/14/2013	4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/19/2013	4/19/2013	4/20/2013	4/21/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)041313	WS-008(SURFACE)041413	WS-008(SURFACE)041513	WS-008(SURFACE)041613	WS-008(SURFACE)041713	WS-008(SURFACE)041813	WS-008(SURFACE)041913	WS-DUP-09-041913	WS-008(SURFACE)042013	WS-008(SURFACE)042113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	6.7	1.2	0.2 J	1.0	0.1 J	0.1 J	0.3 J	0.3 J	0.1 J	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	1	0.2 J	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	8.9	3.5 J	5.1	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	14	1.8	0.6	4.6	0.5	2.3	2.6	2.5	0.8	0.6
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	0.3 J	0.3 J	0.4 J	0.3 J	0.5 J	0.2 J	0.2 J	0.2 J	0.4 J
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	1.1	1	1.2	1.7	1.2	2.2	0.9	0.8	1	1.7
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	7.6	0.9	0.2 J	1.6	0.2 J	0.3 J	0.3 J	0.3 J	0.1 J	0.1 J
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	1.7	0.2 J	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	1.1	0.2 J	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	2.7	0.3 J	< 0.5 U	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	1.1	0.2 J	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	35	4.1	0.9	9.3	0.7	2.5	3.5	3.3	1	0.6
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	52	6.8	1.1	9.9	0.9	1.9	3.8	3.7	1.5	1

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		4/22/2013	4/22/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)042213	WS-DUP-11-042213	WS-008(SURFACE)042313	WS-008(SURFACE)042413	WS-DUP-13-042413	WS-008(SURFACE)042513	WS-008(SURFACE)042613	WS-008(SURFACE)042713	WS-DUP-15-042713	WS-008(SURFACE)042813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0076 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0682	0.0634	0.0337	0.0487	0.0509	0.0431	0.0447	0.0408	0.0400	0.0369
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.91	5.71	9.61 J	6.01	6.09	8.37	10.0	5.50	5.58	7.41
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0120 J	0.0116 J	0.0014 J	0.0054 J	0.0065 J	0.0047 J	0.0026 J	0.0033 J	0.0027 J	0.0020 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.72	2.65	2.70	3.14	3.24	3.80	4.32	3.09	3.11	3.68
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0082 J	0.0085 J	0.0038 J	0.0055 J	0.0065 J	0.0047 J	0.0053 J	0.0048 J	0.0045 J	0.0051 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0108	0.0099	0.0023 J	0.0078	0.0094	0.0056	0.0036 J	0.0047 J	0.0049 J	0.0030 J
Other											
Hardness (as CaCO3)	mg/l	26.0	25.2	35.1	27.9	28.5	36.6	42.8	26.5	26.7	33.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.011 J	< 0.050 U	< 0.051 U	0.015 J	0.011 J	0.013 J	0.013 J	< 0.052 U	< 0.051 U	0.061
2-Methylnaphthalene - Total	ug/l	0.013 J	0.013 J	< 0.051 U	0.014 J	< 0.051 U	0.012 J	0.012 J	< 0.052 U	< 0.051 U	0.069
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	0.021 J	0.017 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.015 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	0.015 J	0.015 J	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.011 J	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.020 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.039 J
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.034 J
Pyrene - Total	ug/l	0.031 J	0.029 J	0.017 J	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.052 U	< 0.051 U	0.019 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	0.1 J	0.1 J	0.1 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		4/22/2013	4/22/2013	4/23/2013	4/24/2013	4/24/2013	4/25/2013	4/26/2013	4/27/2013	4/27/2013	4/28/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)042213	WS-DUP-11-042213	WS-008(SURFACE)042313	WS-008(SURFACE)042413	WS-DUP-13-042413	WS-008(SURFACE)042513	WS-008(SURFACE)042613	WS-008(SURFACE)042713	WS-DUP-15-042713	WS-008(SURFACE)042813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.2 J	0.2 J	0.2 J	0.3 J	0.3 J	0.3 J	0.2 J	0.5	0.5	0.3 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	0.3 J	0.3 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	1.3	1.3	0.8	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.3 J	0.2 J	0.4 J	0.4 J	0.4 J	0.4 J	0.3 J	0.6	0.6	0.5 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.2 J	0.2 J	0.4 J	0.6	0.6	0.5	0.3 J	0.8	0.5	0.6

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		4/29/2013	4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/4/2013	5/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)042913	WS-DUP-17-042913	WS-008(SURFACE)043013	WS-DUP-18-043013	WS-008(SURFACE)050113	WS-008(SURFACE)050213	WS-DUP-19-050213	WS-008(SURFACE)050313	WS-008(SURFACE)050413	WS-DUP-20-050413
Validation Level		Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0072 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0289	0.0289	0.0375	0.0369	0.0442	0.0617	0.0576	0.0739	0.0351	0.0344
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	8.23	8.26	11.1	11.0	15.6	25.4	24.3	9.80	11.8	11.7
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0014 J	0.0013 J	0.0014 J	0.0016 J	0.0014 J	< 0.0150 U	0.0012 J	0.0114 J	0.0015 J	0.0014 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0071 J	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.90	3.94	4.79	4.78	6.32	8.14 J	7.77 J	4.31	5.32	5.23
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0032 J	0.0030 J	0.0039 J	0.0043 J	0.0037 J	0.0071 J	0.0068 J	0.0156	0.0111	0.0106
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0017 J	0.0019 J	0.0016 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0136	0.0018 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	36.6	36.9	47.5	47.2	65.1	97.0	92.8	42.2	51.3	50.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.039 J	0.041 J	0.071	0.068	0.11	0.089	0.090	< 0.053 U	0.017 J	0.016 J
2-Methylnaphthalene - Total	ug/l	0.040 J	0.044 J	0.078	0.071	0.12	0.089	0.093	< 0.053 U	0.016 J	0.013 J
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	0.013 J	0.012 J	0.015 J	0.016 J	0.017 J	< 0.053 U	< 0.053 U	< 0.061 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.061 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	0.012 J	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.061 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	0.014 J	< 0.053 U	< 0.061 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.061 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.061 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.061 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.061 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	0.013 J	< 0.053 U	< 0.061 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.061 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	0.011 J	< 0.051 U	< 0.051 U	< 0.053 U	0.012 J	< 0.053 U	< 0.061 U
Fluorene - Total	ug/l	0.013 J	0.014 J	0.025 J	0.023 J	0.036 J	0.025 J	0.027 J	< 0.053 U	< 0.053 U	< 0.061 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.061 U
Naphthalene - Total	ug/l	0.035 J	0.035 J	0.071	0.067	0.11	0.099	0.10	< 0.053 U	< 0.053 U	< 0.061 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	0.049 J	0.044 J	0.054	< 0.051 U	0.032 J	< 0.053 U	< 0.053 U	< 0.061 U
Pyrene - Total	ug/l	0.011 J	0.012 J	0.017 J	0.014 J	0.017 J	0.014 J	0.013 J	0.019 J	< 0.053 U	< 0.061 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.1 J	0.1 J	0.2 J	0.2 J	0.3 J	0.3 J	0.3 J	0.2 J	0.1 J	0.1 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		4/29/2013	4/29/2013	4/30/2013	4/30/2013	5/1/2013	5/2/2013	5/2/2013	5/3/2013	5/4/2013	5/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)042913	WS-DUP-17-042913	WS-008(SURFACE)043013	WS-DUP-18-043013	WS-008(SURFACE)050113	WS-008(SURFACE)050213	WS-DUP-19-050213	WS-008(SURFACE)050313	WS-008(SURFACE)050413	WS-DUP-20-050413
Validation Level		Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.2 J	0.1 J	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	1.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.5 J	4.0 J	4.2 J	5.6	3.4 J	4.4 J	4.7 J	5.0	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.3 J	0.2 J	0.3 J	0.3 J	0.5	0.5	0.6	0.5 J	0.3 J	0.3 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	0.1 J	0.1 J	0.2 J	0.2 J	0.2 J	0.2 J	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.4 J	0.4 J	0.6	0.6	1	1.2	1.2	0.9	0.5	0.5
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.5 J	0.4 J	0.7	0.8	1.2	1.3	1.4	1.3	0.5	0.5

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013	5/10/2013	5/10/2013	5/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)050513	WS-008(SURFACE)050613	WS-DUP-21-050613	WS-008(SURFACE)050713	WS-008(SURFACE)050813	WS-DUP-22-050813	WS-008(SURFACE)050913	WS-008(SURFACE)051013	WS-DUP-23-051013	WS-008(SURFACE)051113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0420	0.0359	0.0352	0.0320	0.0441	0.0420	0.0512	0.0627	0.0630	0.0522
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	11.8	15.8	15.4	11.5	19.0	17.9	19.6	13.1	13.1	15.6
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0027 J	< 0.0150 U	< 0.0150 U	0.0015 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0040 J	0.0037 J	0.0015 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0069 J	0.0059 J	< 0.0150 U
Magnesium - Total	mg/l	5.38	7.22	7.07	4.96	8.19 J	7.71 J	8.74	6.36	6.37	7.48
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0093 J	0.0086 J	0.0088 J	0.0048 J	0.0058 J	0.0052 J	0.0056 J	0.0131	0.0118	0.0081 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0019 J	< 0.0050 U	< 0.0050 U	0.0023 J	< 0.0050 U	< 0.0050 U	0.0014 J	0.0047 J	0.0049 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	51.5	69.2	67.7	49.1	81.1	76.5	84.9	59.0	59.0	69.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	0.13	0.055 J	0.061 J	0.085	0.079	0.074	0.066	< 0.050 U	< 0.050 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	0.15	0.067	0.072	0.093	0.082	0.080	0.065	< 0.050 U	< 0.050 U	< 0.053 U
Acenaphthene - Total	ug/l	0.016 J	< 0.056 U	< 0.063 U	0.011 J	0.019 J	0.018 J	0.033 J	< 0.050 U	< 0.050 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	0.012 J	0.016 J	0.014 J
Anthracene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	< 0.052 U	0.013 J	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	< 0.052 U	0.016 J	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	0.012 J	0.021 J	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	< 0.052 U	0.019 J	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	0.011 J	0.017 J	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 U
Chrysene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	0.014 J	0.015 J	0.021 J	< 0.050 U	0.015 J	0.012 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	< 0.052 U	0.017 J	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 U
Fluoranthene - Total	ug/l	0.015 J	< 0.056 U	< 0.063 U	< 0.051 U	0.012 J	< 0.051 U	0.027 J	< 0.050 U	0.011 J	< 0.053 U
Fluorene - Total	ug/l	0.033 J	0.028 J	0.016 J	0.027 J	0.028 J	0.023 J	0.038 J	< 0.050 U	< 0.050 U	0.013 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.058 U	< 0.056 U	< 0.063 U	< 0.051 U	< 0.052 U	0.023 J	< 0.052 U	< 0.050 U	< 0.050 U	< 0.053 U
Naphthalene - Total	ug/l	0.086	0.086	0.097	0.10	0.15	0.14	0.16	0.11	0.19	0.036 J
Phenanthrene - Total	ug/l	0.052 J	< 0.056 U	< 0.063 U	0.046 J	0.034 J	< 0.051 U	0.042 J	< 0.050 U	< 0.050 U	< 0.053 U
Pyrene - Total	ug/l	0.022 J	0.017 J	< 0.063 U	0.015 J	0.011 J	0.013 J	0.034 J	0.014 J	0.019 J	0.016 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.3 J	0.2 J	0.2 J	0.3 J	0.2 J	0.3 J	0.3 J	0.5 J	0.5 J	0.1 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/5/2013	5/6/2013	5/6/2013	5/7/2013	5/8/2013	5/8/2013	5/9/2013	5/10/2013	5/10/2013	5/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)050513	WS-008(SURFACE)050613	WS-DUP-21-050613	WS-008(SURFACE)050713	WS-008(SURFACE)050813	WS-DUP-22-050813	WS-008(SURFACE)050913	WS-008(SURFACE)051013	WS-DUP-23-051013	WS-008(SURFACE)051113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	0.2 J	< 0.5 U	< 0.5 U	0.2 J	0.2 J	0.2 J	0.2 J	0.3 J	0.3 J	0.1 J
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	1.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	1.1 J	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J	< 5.0 U	< 5.0 U	3.5 J	6.1	5.7	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.6	0.3 J	0.4 J	1.4	0.4 J	0.5 J	1	0.7	0.7	0.5
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	1.9	1.9	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	0.3 J	0.1 J	0.1 J	0.2 J	0.2 J	0.2 J	0.2 J	0.3 J	0.3 J	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1.5	0.7	0.7	1.8	0.8	0.9	1.2	1.5	1.4	0.6
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	1.7	0.8	0.8	1.9	1.3	1.3	1.7	2.3	2.1	0.8

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/12/2013	5/12/2013	5/13/2013	5/15/2013	5/16/2013	5/16/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)051213	WS-DUP-24-051213	WS-008(SURFACE)051313	WS-008(SURFACE)051513	WS-008(SURFACE)051613	DUP-26-WS-051613	WS-008(SURFACE)051713	WS-008(SURFACE)051813	DUP-27-WS-051813	WS-008(SURFACE)051913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0117 J	0.0105 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0724	0.0749	0.0530	0.115	0.157	0.157	0.0605	0.0572	0.0579	0.0544
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00048 J	0.00050 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	17.7	18.5	18.0	19.9	7.74	7.74	14.0	17.7	18.0	16.4
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0060 J	0.0047 J	0.0027 J	0.0179	0.0278	0.0260	0.0045 J	0.0028 J	0.0024 J	0.0024 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0054 J	0.0098 J	< 0.0150 U	0.0143 J	0.0141 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	9.09	9.54	9.80	11.8	4.95	4.70	6.42	8.25	8.34	8.02
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0097 J	0.0097 J	0.0071 J	0.0137	0.0276	0.0265	0.0136	0.0123	0.0117	0.0091 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0061 J	0.0052 J	0.0038 J	0.0199	0.0330	0.0306	0.0045 J	0.0032 J	0.0030 J	0.0035 J
Other											
Hardness (as CaCO3)	mg/l	81.5	85.4	85.4	98.5	39.7	38.7	61.4	78.3	79.3	74.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	0.016 J	0.015 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	0.011 J	0.014 J	< 0.053 U	< 0.051 U	0.044 J	0.050 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	0.013 J	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	0.012 J	0.014 J	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	0.035 J	0.041 J	< 0.053 U	0.013 J	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	0.013 J
Benzo(a)Anthracene - Total	ug/l	0.14	0.16	0.011 J	0.014 J	0.024 J	0.028 J	< 0.051 UJ	< 0.051 U	< 0.051 U	0.011 J
Benzo(a)Pyrene - Total	ug/l	0.10	0.12	< 0.053 U	< 0.051 UJ	0.017 J	0.028 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	0.33	0.39	0.015 J	0.020 J	0.044 J	0.063	< 0.051 UJ	< 0.051 U	< 0.051 U	0.015 J
Benzo(g,h,i)Perylene - Total	ug/l	0.051	0.061	< 0.053 U	0.011 J	0.024 J	0.031 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	0.12	0.14	< 0.053 U	< 0.051 U	0.013 J	0.018 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	0.26	0.29	0.022 J	0.037 J	0.065	0.081	< 0.051 UJ	< 0.051 U	< 0.051 U	0.020 J
Dibenz(a,h)Anthracene - Total	ug/l	0.017 J	0.016 J	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	0.15	0.17	0.033 J	0.029 J	0.038 J	0.066	< 0.051 UJ	0.011 J	0.011 J	0.012 J
Fluorene - Total	ug/l	< 0.051 U	0.015 J	< 0.053 U	< 0.051 U	< 0.051 U	0.012 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.071	0.086	< 0.053 U	< 0.051 U	0.016 J	0.020 J	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	0.047 J	0.067	< 0.053 U	0.24	0.056	0.060	0.18 J	0.043 J	0.053	0.057
Phenanthrene - Total	ug/l	0.041 J	0.053	< 0.053 U	< 0.051 U	0.035 J	0.057	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	0.17	0.19	0.057	0.045 J	0.053	0.070	< 0.051 UJ	0.020 J	0.020 J	0.028 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	< 5.0 UJ	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.1 J	0.1 J	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/12/2013	5/12/2013	5/13/2013	5/15/2013	5/16/2013	5/16/2013	5/17/2013	5/18/2013	5/18/2013	5/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)051213	WS-DUP-24-051213	WS-008(SURFACE)051313	WS-008(SURFACE)051513	WS-008(SURFACE)051613	DUP-26-WS-051613	WS-008(SURFACE)051713	WS-008(SURFACE)051813	DUP-27-WS-051813	WS-008(SURFACE)051913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	4.5 J	5.7	9.8	9.2	4.2 J	< 5.0 U	< 5.0 U	3.0 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.9	0.9	0.2 J	0.6	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.4 J	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	1.5	1.5	0.4 J	0.7	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	1.0	1.0	0.4 J	0.5 J	0.4 J	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013	5/26/2013	5/26/2013	5/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)052113	WS-008(SURFACE)052213	DUP-WS-29-052213	WS-008(SURFACE)052313	WS-008(SURFACE)052413	DUP-WS-30-052413	WS-008(SURFACE)052513	WS-008(SURFACE)052613	DUP-WS-30-052613	WS-008(SURFACE)052713
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.118	0.0848 J	0.0593 J	0.0778 J	0.0648	0.0650	0.0648	0.0643	0.0633	0.0830
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.00053 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	9.42	4.36	4.43	5.50	13.5	13.1	17.8	18.8	18.5	19.2
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0177	0.0122 J	0.0059 J	0.0114 J	0.0035 J	0.0030 J	0.0021 J	0.0016 J	0.0018 J	0.0040 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0076 J	0.0073 J	0.0057 J	0.0101 J	< 0.0150 U	< 0.0150 U	0.0076 J	< 0.0150 U	< 0.0150 U	0.0058 J
Magnesium - Total	mg/l	5.57	3.13 J	2.81 J	3.15	6.03 J	5.86 J	7.27	8.44	8.33	9.54
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.000075 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0329	0.0131	0.0101	0.0103	0.0105	0.0099 J	0.0082 J	0.0062 J	0.0063 J	0.0074 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0239	0.0181 J	0.0081 J	0.0170	0.0030 J	0.0031 J	0.0014 J	0.0016 J	< 0.0050 U	0.0051
Other											
Hardness (as CaCO3)	mg/l	46.5	23.8	22.6	26.7	58.6	56.8	74.3	81.6	80.5	87.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	0.013 J
2-Methylnaphthalene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	0.013 J
Acenaphthene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Anthracene - Total	ug/l	0.018 J	< 0.052 U	< 0.051 UJ	0.039 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.059 UJ	< 0.052 U	< 0.051 UJ	0.015 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.059 UJ	< 0.052 U	< 0.051 UJ	0.017 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	0.024 J	< 0.052 U	< 0.051 UJ	0.036 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	0.016 J	< 0.052 U	< 0.051 UJ	0.029 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.059 UJ	< 0.052 U	< 0.051 UJ	0.013 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Chrysene - Total	ug/l	0.014 J	< 0.052 U	< 0.051 UJ	0.017 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	0.016 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.059 UJ	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	0.018 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	0.017 J
Fluorene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.015 J	< 0.052 U	< 0.051 UJ	0.027 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	0.034 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	0.037 J
Phenanthrene - Total	ug/l	< 0.059 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U
Pyrene - Total	ug/l	< 0.059 UB	0.011 J	< 0.051 UJ	0.032 J	0.012 J	< 0.051 U	< 0.051 U	0.014 J	0.014 J	0.023 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/21/2013	5/22/2013	5/22/2013	5/23/2013	5/24/2013	5/24/2013	5/25/2013	5/26/2013	5/26/2013	5/27/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)052113	WS-008(SURFACE)052213	DUP-WS-29-052213	WS-008(SURFACE)052313	WS-008(SURFACE)052413	DUP-WS-30-052413	WS-008(SURFACE)052513	WS-008(SURFACE)052613	DUP-WS-30-052613	WS-008(SURFACE)052713
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.4 J	< 5.0 U	< 5.0 U	3.9 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	0.2 J	< 0.5 U	0.1 J	0.1 J
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.3 J	< 0.5 U	< 0.5 U	0.2 J	0.1 J	< 0.5 U	0.2 J	0.1 J	0.1 J	0.2 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.5	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.4 J

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/28/2013	5/28/2013	5/29/2013	5/30/2013	5/30/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/3/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)052813	DUP-WS-32-052813	WS-008(SURFACE)052913	WS-008(SURFACE)053013	DUP-WS-33-053013	WS-008(SURFACE)053113	WS-008(SURFACE)060113	DUP-WS-34-060113	WS-008(SURFACE)060213	WS-008(SURFACE)060313
Validation Level		Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0512	0.0521	0.0607	0.0766	0.0737	0.0354	0.0426	0.0423	0.0328	0.0312
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	17.7	18.1	17.5	17.4	17.2	2.91	3.27	3.31	2.93	3.60
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0012 J	0.0013 J	0.0020 J	0.0032 J	0.0030 J	0.0025 J	0.0039 J	0.0044 J	0.0028 J	0.0031 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	8.54	8.69	9.07	9.59 J	9.50 J	1.95	1.98	1.99	2.11	2.44
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0034 J	0.0040 J	0.0041 J	0.0054 J	0.0046 J	0.0056 J	0.0061 J	0.0065 J	0.0046 J	0.0055 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0025 J	0.0036 J	0.0035 J	0.0038 J	0.0061	0.0060	0.0039 J	0.0040 J
Other											
Hardness (as CaCO3)	mg/l	79.4	80.9	81.0	82.9	82.1	15.3	16.3	16.5	16.0	19.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	0.016 J	0.011 J	0.012 J	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Anthracene - Total	ug/l	< 0.053 U	0.013 J	0.013 J	0.022 J	0.021 J	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	0.013 J	0.011 J	0.013 J	0.043 J	0.044 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 UJ	0.016 J	0.017 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	0.017 J	0.015 J	0.014 J	0.062	0.082	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 UJ	0.030 J	0.033 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 UJ	0.020 J	0.026 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Chrysene - Total	ug/l	0.013 J	0.023 J	0.023 J	0.099	0.088	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 UJ	< 0.053 U	< 0.052 U	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Fluoranthene - Total	ug/l	0.023 J	0.028 J	0.036 J	0.072	0.17	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	0.015 J	0.015 J	0.017 J	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 UJ	0.019 J	0.025 J	< 0.051 UJ	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Naphthalene - Total	ug/l	0.049 J	0.12	< 0.057 U	0.14	0.083	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.057 U	0.040 J	0.13	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
Pyrene - Total	ug/l	0.031 J	0.029 J	0.040 J	0.098	0.16	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.055 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	10.1 J	NA	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		5/28/2013	5/28/2013	5/29/2013	5/30/2013	5/30/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/3/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)052813	DUP-WS-32-052813	WS-008(SURFACE)052913	WS-008(SURFACE)053013	DUP-WS-33-053013	WS-008(SURFACE)053113	WS-008(SURFACE)060113	DUP-WS-34-060113	WS-008(SURFACE)060213	WS-008(SURFACE)060313
Validation Level		Tier III	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	0.8	0.8	0.5	0.5	0.5	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.8	0.8	0.5	0.5	0.6	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.2 J	0.2 J	< 0.5 U	0.2 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	Ws-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		6/3/2013	6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/9/2013	6/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		DUP-WS-35-060313	WS-008(SURFACE)060413	WS-008(SURFACE)060513	DUP-WS-36-060513	WS-008(SURFACE)060613	WS-008(SURFACE)060713	DUP-WS-37-060713	WS-008(SURFACE)060813	WS-008(SURFACE)060913	DUP-WS-38-060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0314	0.0361	0.0367	0.0365	0.0389	0.0405	0.0429	0.0442	0.0581	0.0546
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.64	4.73	6.46	6.37	11.0	13.0	13.6	13.5	13.6	14.0
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0032 J	0.0035 J	0.0029 J	0.0029 J	0.0021 J	0.0024 J	0.0026 J	0.0030 J	0.0043 J	0.0044 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0148 J
Magnesium - Total	mg/l	2.47	2.88	3.83	3.79	5.82	7.16	7.45	6.45	7.48	7.45
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 UB	< 0.00020 U	0.000078 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0046 J	0.0045 J	0.0053 J	0.0049 J	0.0050 J	0.0038 J	0.0040 J	0.0066 J	0.0066 J	0.0063 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0035 J	0.0034 J	0.0033 J	0.0031 J	0.0021 J	0.0024 J	0.0023 J	0.0027 J	0.0055	0.0057
Other											
Hardness (as CaCO3)	mg/l	19.3	23.7	31.9	31.5	51.6	61.9	64.7	60.3	64.8	65.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	0.011 J	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	0.015 J	0.013 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	0.020 J	0.062
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	0.012 J	< 0.051 U	< 0.052 U	< 0.052 U	0.019 J	0.039 J	0.030 J
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.041 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.011 J	< 0.052 U	0.012 J	0.031 J	0.023 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	Ws-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		6/3/2013	6/4/2013	6/5/2013	6/5/2013	6/6/2013	6/7/2013	6/7/2013	6/8/2013	6/9/2013	6/9/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		DUP-WS-35-060313	WS-008(SURFACE)060413	WS-008(SURFACE)060513	DUP-WS-36-060513	WS-008(SURFACE)060613	WS-008(SURFACE)060713	DUP-WS-37-060713	WS-008(SURFACE)060813	WS-008(SURFACE)060913	DUP-WS-38-060913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.7 J	3.3 J	3.3 J	9.0	4.6 J	3.8 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.4 J	0.7	0.6
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/13/2013	6/13/2013	6/17/2013	6/17/2013	6/18/2013	6/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)061013	WS-008(SURFACE)061113	DUP-WS-39-061113	WS-008(SURFACE)061213	WS-008(SURFACE)061313	DUP-WS-40-061313	WS-008(SURFACE)061713	DUP-WS-42-061713	WS-008(SURFACE)061813	WS-008(SURFACE)061913
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0628	0.0559	0.0549	0.0505	0.0470	0.0463	0.0664	0.0675	0.0555	0.0268
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U	0.00042 J	< 0.0050 U
Calcium - Total	mg/l	15.6	16.6	16.5	15.9	14.4	14.5	20.5	20.7	15.7	15.5
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0021 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0017 J	0.0016 J	0.0015 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0062 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	6.54	7.12	7.06	7.20	6.06	6.02	10.3	10.3	7.65	7.25 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 UB	< 0.00020 UJ	< 0.00020 UJ	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0040 J	0.0038 J	0.0035 J	0.0036 J	0.0033 J	0.0036 J	0.0064 J	0.0058 J	0.0035 J	0.0026 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0035 J	0.0018 J	0.0020 J	0.0013 J	0.0019 J	0.0016 J	0.0016 J	0.0017 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	66.0	70.7	70.2	69.3	60.8	61.1	93.5	93.9	70.7	68.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	0.011 J	0.012 J	0.015 J	< 0.053 U	< 0.053 U	0.046 J	0.040 J	< 0.053 U	0.024 J
2-Methylnaphthalene - Total	ug/l	0.013 J	0.015 J	0.015 J	< 0.052 U	< 0.053 U	< 0.053 U	0.031 J	0.031 J	< 0.053 U	0.029 J
Acenaphthene - Total	ug/l	0.018 J	0.024 J	0.032 J	0.025 J	0.021 J	0.020 J	0.063	0.064	0.014 J	0.039 J
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	0.028 J	0.028 J	< 0.053 U	< 0.055 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	0.016 J	0.011 J	0.011 J	0.013 J	< 0.051 U	< 0.053 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	0.012 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.053 UJ	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	0.012 J	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	0.013 J	< 0.053 U	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.055 U
Chrysene - Total	ug/l	0.013 J	0.019 J	0.020 J	0.012 J	0.011 J	0.012 J	0.017 J	0.020 J	< 0.053 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.055 U
Fluoranthene - Total	ug/l	0.025 J	0.042 J	0.044 J	0.029 J	0.024 J	0.025 J	0.036 J	0.042 J	0.014 J	0.028 J
Fluorene - Total	ug/l	0.013 J	0.027 J	0.029 J	0.020 J	0.011 J	0.014 J	0.037 J	0.041 J	0.013 J	0.030 J
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.055 U
Naphthalene - Total	ug/l	0.041 J	0.068	0.076	0.088	0.085	0.080	0.33	0.31	0.088	0.21
Phenanthrene - Total	ug/l	0.035 J	0.062	0.068	0.039 J	< 0.053 U	< 0.053 U	0.041 J	0.038 J	< 0.053 U	0.054 J
Pyrene - Total	ug/l	0.017 J	0.034 J	0.040 J	0.021 J	0.018 J	0.019 J	0.035 J	0.028 J	< 0.053 U	0.019 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008
Sample Date		6/10/2013	6/11/2013	6/11/2013	6/12/2013	6/13/2013	6/13/2013	6/17/2013	6/17/2013	6/18/2013	6/19/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-008(SURFACE)061013	WS-008(SURFACE)061113	DUP-WS-39-061113	WS-008(SURFACE)061213	WS-008(SURFACE)061313	DUP-WS-40-061313	WS-008(SURFACE)061713	DUP-WS-42-061713	WS-008(SURFACE)061813	WS-008(SURFACE)061913
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.5 J	4.8 J	5.3	5.7	6.5	7.2	9.1	8.3	5.2 J	5.8
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	0.2 J	< 0.5 U	< 0.5 U	0.2 J	0.1 J	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-009	WS-010	WS-010	WS-010
Sample Date		8/11/2013	8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/25/2013	4/12/2013	4/16/2013	4/16/2013	4/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	1.5-2 ft	2.5-3 ft	1.5-2 ft
Sample ID		WS-008(SURFACE)081113	WS-008(SURFACE)081213	WS-008(SURFACE)081313	WS-008(SURFACE)081413	WS-008(SURFACE)081513	WS-008(SURFACE)082513	WS-009(SURFACE)041213	WS-010(1.5-2.0)041613	WS-010(2.5-3.0)041613	WS-010(1.5-2.0)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	NA	56	56	54
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	6.19	5.16	8.41
pH	SU	NA	NA	NA	NA	NA	NA	NA	6.28	6.14	6.64
Temperature	deg C	NA	NA	NA	NA	NA	NA	NA	19.34	18.87	18.77
Turbidity	NTU	NA	NA	NA	NA	NA	NA	NA	85	136	32.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0319	0.0262	0.0221	0.0219	0.0236	0.0272	NA	NA	NA	NA
Barium - Total	mg/L	0.0403	0.0289	0.0376	0.0262	0.0249	0.0393	0.230	0.0322	0.0489	0.0298
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 UB
Calcium - Total	mg/l	8.85	12.9	6.06	8.10	10.5	10.0	9.06	3.21	3.30	3.21
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA
Chromium - Total	mg/L	0.0018 J	< 0.0150 U	0.0041 J	0.0023 J	0.0021 J	0.0034 J	0.0127 J	0.0011 J	0.0029 J	0.0018 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0206	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	4.95	6.83	3.60	4.85	6.20	5.90	3.40	1.56	1.77	1.67
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00017 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0046 J	0.0060 J	0.0043 J	0.0037 J	0.0015 J	0.0015 J	NA	NA	NA	NA
Nickel - Total	mg/L	0.0059 J	0.0068 J	0.0062 J	0.0034 J	0.0022 J	0.0024 J	0.0168	0.0020 J	0.0038 J	0.0025 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 UB
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	0.0044 J	< 0.0050 U	< 0.0050 U	0.0044 J	0.0207	0.0026 J	0.0066	0.0020 J
Other											
Hardness (as CaCO3)	mg/l	42.5	60.3	30.0	40.2	51.8	49.4	36.6	14.4	15.5	14.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.023 J	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	0.012 J	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.036 J	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.022 J	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.015 J	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	0.028 J	0.015 J	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.040 J	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.047 J	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.020 J	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.10	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.036 J	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.075	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.12	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 UJ	0.029 J	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	0.015 J	0.11	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.028 J	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.026 J	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.11	0.043 J	0.044 J	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.050 J	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.053 U	0.18	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.9 J	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	1.7 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-009	WS-010	WS-010	WS-010
Sample Date		8/11/2013	8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/25/2013	4/12/2013	4/16/2013	4/16/2013	4/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	1.5-2 ft	2.5-3 ft	1.5-2 ft
Sample ID		WS-008(SURFACE)081113	WS-008(SURFACE)081213	WS-008(SURFACE)081313	WS-008(SURFACE)081413	WS-008(SURFACE)081513	WS-008(SURFACE)082513	WS-009(SURFACE)041213	WS-010(1.5-2.0)041613	WS-010(2.5-3.0)041613	WS-010(1.5-2.0)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	5.7	< 5.0 U	7.0	< 5.0 U	< 5.0 U	< 5.0 U	4.8 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.3 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		4/24/2013	4/29/2013	5/6/2013	5/13/2013	5/20/2013	5/20/2013	5/29/2013	6/3/2013	6/3/2013	6/19/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(1.5-2.0)042413	WS-010(1.5-2.0)042913	WS-010(1.5-2.0)050613	WS-010(1.5-2.0)051313	WS-010(1.5-2.0)052013	WS-010(4.0-4.5)052013	WS-010(1.5-2.0)052913	WS-010(1.5-2.0)060313	WS-010(3.5-4.0)060313	WS-010(1.5-2.0)061913
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	80	54	54	65	77	125	75	69	65	107
Dissolved Oxygen	mg/l	8.29	6.59	7.86	7.64	5.17	4.17	4.91	9.18	7.41	7.63
pH	SU	6.76	6.54	6.77	6.63	6.59	6.61	6.65	6.81	6.72	6.54
Temperature	deg C	19.7	21.02	16.64	21.32	23.89	23.54	25.24	26.48	24.9	29.48
Turbidity	NTU	NA	17.7	NA	NA	NA	NA	24.8	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0297	0.0302	0.0519	0.0268	0.0278	0.0276	0.0249	0.0238	0.0250	0.0176
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.23	3.15	3.51	3.44	3.85	3.81	3.91	3.39	3.49	4.71
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0016 J	0.0014 J	0.0065 J	0.0017 J	0.0021 J	< 0.0150 U	< 0.0150 U	0.0017 J	0.0018 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0106 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.68	1.60	2.06	1.78	1.89	1.84	1.93	1.64	1.72	2.16 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00016 J	< 0.00020 U	0.00074	0.0015	0.00050	0.00056	0.00056	0.00090
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0021 J	0.0023 J	0.0053 J	0.0025 J	0.0013 J	< 0.0100 U	< 0.0100 U	0.0021 J	0.0022 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0019 J	0.0031 J	0.0089	0.0019 J	0.0022 J	< 0.0050 U	< 0.0050 U	0.0020 J	0.0020 J	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	15.0	14.5	17.2	15.9	17.4	17.1	17.7	15.2	15.8	20.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	0.036 J	0.064	0.065	0.066	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		4/24/2013	4/29/2013	5/6/2013	5/13/2013	5/20/2013	5/20/2013	5/29/2013	6/3/2013	6/3/2013	6/19/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(1.5-2.0)042413	WS-010(1.5-2.0)042913	WS-010(1.5-2.0)050613	WS-010(1.5-2.0)051313	WS-010(1.5-2.0)052013	WS-010(4.0-4.5)052013	WS-010(1.5-2.0)052913	WS-010(1.5-2.0)060313	WS-010(3.5-4.0)060313	WS-010(1.5-2.0)061913
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		6/19/2013	7/1/2013	7/1/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013
Depths (ft)		3-3.5 ft	1.5-2 ft	3-3.5 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft
Sample ID		WS-010(3.0-3.5)061913	WS-010(1.5-2.0)070113	WS-010(3.0-3.5)070113	WS-010(1.5-2.0)071513	WS-010(1.5-2.0)071613	WS-010(1.5-2.0)071713	WS-010(1.5-2.0)071813	WS-010(1.5-2.0)071913	WS-010(1.5-2.0)072013	WS-010(1.5-2.0)072113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	107	96	96	85	86	88	92	91	88	84
Dissolved Oxygen	mg/l	7.49	1.43	3.51	4.55	6.02	5.77	6.99	4.24	3.05	2.71
pH	SU	6.74	7.09	7.38	6.92	7.54	7.8	8.2	7.16	7.06	7.2
Temperature	deg C	29.2	28.49	28.48	29.14	30.93	31.17	31.23	30.49	29.99	29.48
Turbidity	NTU	NA	NA	NA	33.1	27.1	14.5	22	23.4	28.2	23.3
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0087 J	0.0078 J
Barium - Dissolved	mg/l	NA	NA	NA	0.0117	< 0.0129 UB	0.0108	0.0069	< 0.0099 UB	< 0.0128 UB	0.0121
Barium - Total	mg/L	0.0183	0.0303	0.0309	0.0426	0.0289	0.0339	0.0218	0.0293	0.0396	0.0472
Cadmium - Dissolved	mg/l	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.74	5.11	5.22	5.89	5.80	5.71	5.91	5.71	5.83 J	5.96 J
Chromium - Dissolved	mg/l	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 UB	< 0.0150 U	0.0028 J	0.0084 J	< 0.0150 UB
Lead - Dissolved	mg/l	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.18 J	2.38	2.42	2.72	2.70	2.66	2.73 J	2.65	2.79 J	2.77 J
Mercury - Dissolved	mg/l	NA	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00038	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	0.00067	< 0.00067 UB	< 0.00079 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0014 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0011 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 UB	< 0.0100 U	0.0028 J	0.0061 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	20.8	22.6	23.0	25.9	25.6	25.2	26.0	25.2	26.0	26.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Chrysene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Fluorene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.052 U	0.073	0.082	< 0.11 UB	< 0.051 UB	< 0.13 UB	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
Pyrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.054 U	< 0.056 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA	< 5.0 U	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		6/19/2013	7/1/2013	7/1/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013
Depths (ft)		3-3.5 ft	1.5-2 ft	3-3.5 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft
Sample ID		WS-010(3.0-3.5)061913	WS-010(1.5-2.0)070113	WS-010(3.0-3.5)070113	WS-010(1.5-2.0)071513	WS-010(1.5-2.0)071613	WS-010(1.5-2.0)071713	WS-010(1.5-2.0)071813	WS-010(1.5-2.0)071913	WS-010(1.5-2.0)072013	WS-010(1.5-2.0)072113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		7/22/2013	7/23/2013	7/23/2013	7/25/2013	7/25/2013	7/26/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(1.5-2.0)072213	WS-010(1.5-2.0)072313	WS-010(3.5-4.0)072313	WS-010(1.5-2.0)072513	WS-010(3.5-4.0)072513	WS-010(1.5-2.0)072613	WS-010(3.5-4.0)072613	WS-010(1.5-2.0)072713	WS-010(3.5-4.0)072713	WS-010(1.5-2.0)072813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	82	82	81	79	79	77	77	73	73	75
Dissolved Oxygen	mg/l	4.18	2.62	2.7	5.04	3.51	6.14	5.83	4.95	4.72	6.84
pH	SU	7.09	7	6.94	7.2	7.05	7.04	7.3	7.29	7.23	7.51
Temperature	deg C	29.23	28.15	27.81	28.14	27.99	27.6	27.6	26.05	25.95	27.23
Turbidity	NTU	19.8	19.1	19.1	25.2	25.2	22.3	22.3	20.9	20.9	19.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0400 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0149 UB	0.0227	0.0228	< 0.0185 UB	< 0.0190 UB	0.0162	0.0173	0.0179	0.0179	< 0.0145 UB
Barium - Total	mg/L	0.0527	0.0483	0.0527	0.0432	0.0439	0.0368	0.0405	0.0335	0.0329	< 0.0313 UB
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.89	5.70	5.69	5.86	5.84	5.67	5.53	5.26	5.11	5.51 J
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0300 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0065 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0018 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0300 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.76 J	2.64	2.64	2.74	2.73	2.65	2.61	2.48	2.43	2.59 J
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0200 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0034 J	< 0.0100 U	< 0.0100 U	0.0018 J	0.0018 J	0.0022 J	0.0020 J	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0400 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0023 J	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.1	25.1	25.1	25.9	25.8	25.1	24.5	23.3	22.7	24.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Anthracene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Chrysene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Fluorene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
Pyrene - Total	ug/l	< 0.053 U	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.057 U	< 0.057 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	2.5 J	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		7/22/2013	7/23/2013	7/23/2013	7/25/2013	7/25/2013	7/26/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(1.5-2.0)072213	WS-010(1.5-2.0)072313	WS-010(3.5-4.0)072313	WS-010(1.5-2.0)072513	WS-010(3.5-4.0)072513	WS-010(1.5-2.0)072613	WS-010(3.5-4.0)072613	WS-010(1.5-2.0)072713	WS-010(3.5-4.0)072713	WS-010(1.5-2.0)072813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		7/28/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013	7/31/2013	7/31/2013	8/1/2013	8/1/2013	8/2/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)072813	WS-010(1.5-2.0)072913	WS-010(3.5-4.0)072913	WS-010(1.5-2.0)073013	WS-010(3.5-4.0)073013	WS-010(1.5-2.0)073113	WS-010(3.5-4.0)073113	WS-010(1.5-2.0)080113	WS-010(3.5-4.0)080113	WS-010(1.5-2.0)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	77	77	77	77	78	78	77	78	80
Dissolved Oxygen	mg/l	5.76	6.83	5.75	6.37	5.64	3.42	2.17	4.4	3.89	6.01
pH	SU	7.35	7.58	7.77	7.7	7.64	7.19	7.08	7.34	7.23	8
Temperature	deg C	27.1	28.45	28.32	28.33	28.32	27.82	27.5	28.07	28.05	29.58
Turbidity	NTU	19.7	22.2	22.2	20.2	20.2	24.3	24.3	24.6	24.6	21.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0076 J	0.0076 J	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0148 UB	< 0.0118 UB	< 0.0129 UB	< 0.0140 UB	< 0.0143 UB	< 0.0169 UB	< 0.0172 UB	< 0.0170 UB	< 0.0167 UB	0.0121
Barium - Total	mg/L	< 0.0313 UB	0.0337	0.0368	< 0.0287 UB	0.0294	0.0436	0.0494	0.0455	0.0486	0.0339
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.54 J	5.54	5.61	5.64	5.70	5.52	5.65	5.53	5.59	5.60
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.61 J	2.59	2.62	2.68 J	2.71 J	2.57	2.62	2.58	2.62	2.60
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0019 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	0.0017 J	0.0019 J	0.0020 J	0.0018 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.6	24.5	24.8	25.1	25.4	24.3	24.9	24.5	24.7	24.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
2-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Acenaphthene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Anthracene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Chrysene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Fluoranthene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Fluorene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Naphthalene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
Pyrene - Total	ug/l	< 0.056 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	2.1 J	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		7/28/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013	7/31/2013	7/31/2013	8/1/2013	8/1/2013	8/2/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)072813	WS-010(1.5-2.0)072913	WS-010(3.5-4.0)072913	WS-010(1.5-2.0)073013	WS-010(3.5-4.0)073013	WS-010(1.5-2.0)073113	WS-010(3.5-4.0)073113	WS-010(1.5-2.0)080113	WS-010(3.5-4.0)080113	WS-010(1.5-2.0)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/2/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013	8/5/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)080213	WS-010(1.5-2.0)080313	WS-010(3.5-4.0)080313	WS-010(1.5-2.0)080413	WS-010(3.5-4.0)080413	WS-010(1.5-2.0)080513	WS-010(3.5-4.0)080513	WS-010(1.5-2.0)080613	WS-010(3.5-4.0)080613	WS-010(1.5-2.0)080713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	79	80	80	80	80	76	74	76	74	82
Dissolved Oxygen	mg/l	5.29	6.42	5.86	5.6	3.54	4.76	2.36	4.41	3.02	3.03
pH	SU	7.65	7.43	7.46	7.48	7.21	7.11	6.87	7.35	6.99	7.13
Temperature	deg C	29.42	29.29	29.33	29.54	29.27	29.1	28.49	29.22	28.85	30.48
Turbidity	NTU	21.1	18.9	18.9	22.8	22.8	25	25	20.6	20.6	22.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 UB	< 0.0200 UB	0.0111 J	0.0074 J	< 0.0200 U	< 0.0200 U	0.0090 J	0.0083 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0126	< 0.0099 UB	< 0.0132 UB	0.0111	0.0133	0.0114	0.0119	0.0130	0.0130	0.0118
Barium - Total	mg/L	0.0354	0.0294	0.0356	0.0330	0.0340	0.0242	0.0269	0.0282	0.0293	0.0320
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.56	5.66	5.52	5.55	5.62	5.11	5.06	5.33	5.26	5.37
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.59	2.69	2.62	2.64	2.69	2.38	2.34	2.45	2.43	2.50
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0021 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.5	25.2	24.6	24.7	25.1	22.6	22.3	23.4	23.1	23.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/2/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013	8/5/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)080213	WS-010(1.5-2.0)080313	WS-010(3.5-4.0)080313	WS-010(1.5-2.0)080413	WS-010(3.5-4.0)080413	WS-010(1.5-2.0)080513	WS-010(3.5-4.0)080513	WS-010(1.5-2.0)080613	WS-010(3.5-4.0)080613	WS-010(1.5-2.0)080713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/7/2013	8/8/2013	8/8/2013	8/9/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/11/2013	8/12/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)080713	WS-010(1.5-2.0)080813	WS-010(3.5-4.0)080813	WS-010(1.5-2.0)080913	WS-010(3.5-4.0)080913	WS-010(1.5-2.0)081013	WS-010(3.5-4.0)081013	WS-010(1.5-2.0)081113	WS-010(3.5-4.0)081113	WS-010(1.5-2.0)081213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	85	83	84	84	84	84	84	79	73	77
Dissolved Oxygen	mg/l	0.71	3.92	3.34	5.17	4.47	5.1	4.71	3.89	3.52	5.52
pH	SU	6.96	7.23	7.15	7.4	7.32	7.43	7.41	7.35	7.03	7.44
Temperature	deg C	30.15	31.08	31.03	30.33	30.33	30.37	30.35	29.38	28.75	29.56
Turbidity	NTU	22.1	22.6	22.6	19	19	26.3	26.3	20	20	19.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0218	0.0120	0.0131	0.0125	0.0130	0.0128	0.0132	0.0118	0.0128	0.0117
Barium - Total	mg/L	0.0543	0.0282	0.0280	0.0269	0.0278	0.0254	0.0259	0.0235	0.0253	0.0212
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.46	5.83	5.53	5.78	5.81	5.86	5.88	5.59	5.06	5.46
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.54	2.68	2.55	2.67	2.68	2.71	2.73	2.55	2.28	2.48
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.1	25.6	24.3	25.4	25.5	25.8	25.9	24.4	22.0	23.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Anthracene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Chrysene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Fluorene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
Pyrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/7/2013	8/8/2013	8/8/2013	8/9/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/11/2013	8/12/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)080713	WS-010(1.5-2.0)080813	WS-010(3.5-4.0)080813	WS-010(1.5-2.0)080913	WS-010(3.5-4.0)080913	WS-010(1.5-2.0)081013	WS-010(3.5-4.0)081013	WS-010(1.5-2.0)081113	WS-010(3.5-4.0)081113	WS-010(1.5-2.0)081213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/12/2013	8/14/2013	8/14/2013	8/15/2013	8/15/2013	8/16/2013	8/16/2013	8/17/2013	8/17/2013	8/18/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)081213	WS-010(1.5-2.0)081413	WS-010(3.5-4.0)081413	WS-010(1.5-2.0)081513	WS-010(3.5-4.0)081513	WS-010(1.5-2.0)081613	WS-010(3.5-4.0)081613	WS-010(1.5-2.0)081713	WS-010(3.5-4.0)081713	WS-010(1.5-2.0)081813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	80	77	73	71	74	72	74	74	74
Dissolved Oxygen	mg/l	4.09	3.94	3.52	5.48	4.71	7.3	5.83	5.68	5.04	5.48
pH	SU	7.19	7.09	7.09	7.34	7.13	8.05	7.87	7.27	7.14	7.31
Temperature	deg C	29.25	27.02	27.79	25.63	25.35	26.32	26.01	24.84	24.67	25.99
Turbidity	NTU	19.7	25.7	25.7	26.6	26.6	14	14	18.6	18	20.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0130	0.0128	0.0123	0.0141	0.0143	< 0.0117 UB	< 0.0129 UB	0.0156	0.0152	0.0169
Barium - Total	mg/L	0.0240	0.0468	0.0478	0.0323	0.0337	0.0286	0.0288	0.0315	0.0327	0.0340
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.07	5.74	5.81	5.38	5.56	5.59	5.49	5.77	5.70	5.80
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0018 J	0.0024 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.30	2.64	2.66	2.47	2.54	2.57	2.55	2.67	2.64	2.70
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	22.1	25.2	25.5	23.6	24.4	24.5	24.2	25.4	25.1	25.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	0.011 J	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.056 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	2.6 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/12/2013	8/14/2013	8/14/2013	8/15/2013	8/15/2013	8/16/2013	8/16/2013	8/17/2013	8/17/2013	8/18/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)081213	WS-010(1.5-2.0)081413	WS-010(3.5-4.0)081413	WS-010(1.5-2.0)081513	WS-010(3.5-4.0)081513	WS-010(1.5-2.0)081613	WS-010(3.5-4.0)081613	WS-010(1.5-2.0)081713	WS-010(3.5-4.0)081713	WS-010(1.5-2.0)081813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/18/2013	8/19/2013	8/19/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/23/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)081813	WS-010(1.5-2.0)081913	WS-010(3.5-4.0)081913	WS-010(1.5-2.0)082013	WS-010(3.5-4.0)082013	WS-010(1.5-2.0)082113	WS-010(3.5-4.0)082113	WS-010(1.5-2.0)082213	WS-010(3.5-4.0)082213	WS-010(1.5-2.0)082313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	75	76	79	80	78	85	82	92	82
Dissolved Oxygen	mg/l	4.71	5.2	4.73	7.07	2.7	5.25	0.23	1.96	0.39	5.82
pH	SU	7.2	7.51	7.39	8.06	7.53	8	7.36	7.59	7.29	7.91
Temperature	deg C	25.89	26.55	26.6	28.41	27.67	28.46	27.03	28.66	27.33	30.84
Turbidity	NTU	18.9	23.8	21.5	18.8	25.9	18.3	22	17.2	18	15.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0151	< 0.0171 UB	< 0.0171 UB	0.0137	0.0193	< 0.0119 UB	0.0408	0.0155	0.0452	0.0109
Barium - Total	mg/L	0.0335	0.0379	0.0365	< 0.0275 UB	0.0548	< 0.0293 UB	0.107	0.0453	0.102	0.0257
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.61	5.86	5.62	5.41	5.61	5.72	5.94	6.33	6.60	5.73
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.61	2.73	2.64	2.57	2.64	2.68	2.75	2.93	2.97	2.67
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.8	25.9	24.9	24.1	24.9	25.3	26.2	27.9	28.7	25.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 UJ
Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 UJ
Naphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.5 J	2.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/18/2013	8/19/2013	8/19/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/23/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)081813	WS-010(1.5-2.0)081913	WS-010(3.5-4.0)081913	WS-010(1.5-2.0)082013	WS-010(3.5-4.0)082013	WS-010(1.5-2.0)082113	WS-010(3.5-4.0)082113	WS-010(1.5-2.0)082213	WS-010(3.5-4.0)082213	WS-010(1.5-2.0)082313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/23/2013	8/24/2013	8/24/2013	8/25/2013	8/25/2013	8/26/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)082313	WS-010(1.5-2.0)082413	WS-010(3.5-4.0)082413	WS-010(1.5-2.0)082513	WS-010(3.5-4.0)082513	WS-010(1.5-2.0)082613	WS-010(3.5-4.0)082613	WS-010(1.5-2.0)082713	WS-010(3.5-4.0)082713	WS-010(1.5-2.0)082813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	85	97	108	104	123	91	103	97	99	70
Dissolved Oxygen	mg/l	1.8	4.02	0.39	5.09	0.29	2.7	1.88	3.64	4.56	4.43
pH	SU	6.93	7.27	6.91	NA	NA	NA	NA	NA	NA	7.83
Temperature	deg C	28.14	29.32	28.51	30.08	29.11	30.34	30.12	28.86	29.67	30.1
Turbidity	NTU	56.2	NA	NA	NA	NA	NA	NA	NA	NA	13.2
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0154 J	< 0.0200 U	0.0093 J	< 0.0200 U	0.0080 J	< 0.0200 U	0.0072 J	< 0.0200 U	< 0.0200 U	0.0122 J
Barium - Dissolved	mg/l	0.0213	0.0114	0.0265	0.0061	0.0066	0.0101	0.0089	0.0076	0.010	0.0051
Barium - Total	mg/L	0.176	0.0400	0.0772	0.0242	0.0276	0.0464	0.0576	0.0610	0.0319	0.0898
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	0.00076 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.10	5.86	5.92	6.03	6.12	6.20	6.19	6.25	6.26	6.58
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U
Chromium - Total	mg/L	0.0109 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0253	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.89	2.75	2.78	2.78	2.82	2.79	2.81	2.90	2.91	2.91
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0116	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0225	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	33.8	25.9	26.2	26.5	26.9	27.0	27.0	27.5	27.6	28.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.012 J	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.020 J	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.063	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/23/2013	8/24/2013	8/24/2013	8/25/2013	8/25/2013	8/26/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)082313	WS-010(1.5-2.0)082413	WS-010(3.5-4.0)082413	WS-010(1.5-2.0)082513	WS-010(3.5-4.0)082513	WS-010(1.5-2.0)082613	WS-010(3.5-4.0)082613	WS-010(1.5-2.0)082713	WS-010(3.5-4.0)082713	WS-010(1.5-2.0)082813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.9 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/28/2013	8/29/2013	8/29/2013	8/30/2013	8/30/2013	8/31/2013	8/31/2013	9/1/2013	9/1/2013	9/2/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)082813	WS-010(1.5-2.0)082913	WS-010(3.5-4.0)082913	WS-010(1.5-2.0)083013	WS-010(3.5-4.0)083013	WS-010(1.5-2.0)083113	WS-010(3.5-4.0)083113	WS-010(1.5-2.0)090113	WS-010(3.5-4.0)090113	WS-010(1.5-2.0)090213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	73	77	72	80	70	72	75	75	77
Dissolved Oxygen	mg/l	1.42	NA	NA	2.19	0.2	2.31	2.54	0.87	0.82	0.53
pH	SU	7.24	7.45	7.14	7.9	7.36	7.89	7.3	7.4	7.05	7.78
Temperature	deg C	29.87	29.34	29.42	29.99	29.72	29.91	29.68	29.54	29.45	29.53
Turbidity	NTU	11.2	10.1	10	8.2	8.36	8.1	8.3	7.2	9.6	8.9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0110 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	0.0072 J
Barium - Dissolved	mg/l	0.0318	0.0141	0.0302	0.0304	0.0905	0.0359	0.0745	0.0300	0.0561	0.0525
Barium - Total	mg/L	0.436	0.124	0.301	0.161	0.623	0.217	0.312	0.238	0.366	0.481
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 UJ	< 0.0050 U
Calcium - Total	mg/l	7.02	6.64	7.00	6.87	7.19	7.08	7.16	6.86	6.90	7.04
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.03	2.92	3.02	3.04	3.10	3.12	3.14	2.98	3.02	3.12
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0018 J	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.0	28.6	29.9	29.7	30.7	30.5	30.8	29.4	29.7	30.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	0.012 J	0.011 J	< 0.056 U	< 0.054 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	3.6 J	< 5.0 U	< 5.0 U	3.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		8/28/2013	8/29/2013	8/29/2013	8/30/2013	8/30/2013	8/31/2013	8/31/2013	9/1/2013	9/1/2013	9/2/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)082813	WS-010(1.5-2.0)082913	WS-010(3.5-4.0)082913	WS-010(1.5-2.0)083013	WS-010(3.5-4.0)083013	WS-010(1.5-2.0)083113	WS-010(3.5-4.0)083113	WS-010(1.5-2.0)090113	WS-010(3.5-4.0)090113	WS-010(1.5-2.0)090213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/2/2013	9/3/2013	9/3/2013	9/4/2013	9/4/2013	9/5/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)090213	WS-010(1.5-2.0)090313	WS-010(3.5-4.0)090313	WS-010(1.5-2.0)090413	WS-010(3.5-4.0)090413	WS-010(1.5-2.0)090513	WS-010(3.5-4.0)090513	WS-010(1.5-2.0)090613	WS-010(3.5-4.0)090613	WS-010(1.5-2.0)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	73	72	73	73	73	73	73	73	74
Dissolved Oxygen	mg/l	0.41	3.43	3.26	4.3	4	4.4	3.25	4.94	3.16	5.2
pH	SU	7.25	8.17	7.7	8.02	7.82	8.32	7.34	8.32	7.29	7.56
Temperature	deg C	29.52	28.86	28.92	29.28	29.27	29.26	29	29.1	29	29.59
Turbidity	NTU	8.9	8.1	7.8	12	12.3	10.1	11.7	12.3	15.7	14
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0080 J
Arsenic - Total	mg/L	0.0088 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.183	0.0293	0.0268	0.0249	0.0360	0.0307	0.0343	0.0199	0.0241	0.0278
Barium - Total	mg/L	0.638	0.0830	0.0794	0.0815	0.0965	0.0751	0.0753	0.0531	0.0755	0.0515
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.07	6.91	6.95	6.99	6.96	7.03	7.16	6.83	7.10	6.99
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.13	3.08	3.10	3.10	3.08	3.13	3.20	3.04	3.17	3.14
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.5	29.9	30.1	30.2	30.1	30.4	31.1	29.6	30.8	30.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Chrysene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.6 J	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/2/2013	9/3/2013	9/3/2013	9/4/2013	9/4/2013	9/5/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)090213	WS-010(1.5-2.0)090313	WS-010(3.5-4.0)090313	WS-010(1.5-2.0)090413	WS-010(3.5-4.0)090413	WS-010(1.5-2.0)090513	WS-010(3.5-4.0)090513	WS-010(1.5-2.0)090613	WS-010(3.5-4.0)090613	WS-010(1.5-2.0)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/7/2013	9/8/2013	9/8/2013	9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/11/2013	9/12/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)090713	WS-010(1.5-2.0)090813	WS-010(3.5-4.0)090813	WS-010(1.5-2.0)090913	WS-010(3.5-4.0)090913	WS-010(1.5-2.0)091013	WS-010(3.5-4.0)091013	WS-010(1.5-2.0)091113	WS-010(3.5-4.0)091113	WS-010(1.5-2.0)091213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	75	74	76	81	74	74	74	74	74
Dissolved Oxygen	mg/l	3.22	3.54	1.94	3.01	0.15	2.14	2.04	2.17	2.01	3.31
pH	SU	7.31	7.43	7.17	7.45	7.16	7.13	7.22	7.01	7.03	7.63
Temperature	deg C	29.47	29.05	29.24	29.64	29.37	28.78	28.51	28.58	28.35	29.32
Turbidity	NTU	11.7	11.3	9.9	9	7.8	7.3	6.8	7.3	6.9	7.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0083 J	< 0.0200 U	0.0075 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0088 J	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0340	0.0202	0.0296	0.0141	0.0275	0.0420	0.0878	< 0.0315 UB	0.0339	0.0226
Barium - Total	mg/L	0.110	0.0827	0.0863	0.113	0.443	0.142	0.135	0.101	0.0896	0.0636
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.14	6.75	6.94	7.19	7.58	6.87	6.84	7.20	7.18	7.09
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0028 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0021 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0071 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.20	3.04	3.12	3.22	3.27	3.06	3.05	3.21	3.21	3.12
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0026 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0038 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.0	29.4	30.2	31.2	32.4	29.7	29.6	31.2	31.1	30.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Anthracene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.056 U	< 0.054 U	0.013 J	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.056 U	< 0.054 U	0.018 J	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.056 U	< 0.054 U	0.021 J	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.056 U	< 0.054 U	0.014 J	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Chrysene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.056 U	< 0.054 U	0.011 J	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Fluorene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.056 U	< 0.054 U	0.019 J	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
Pyrene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.6 J	< 5.0 U	1.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/7/2013	9/8/2013	9/8/2013	9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/11/2013	9/12/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)090713	WS-010(1.5-2.0)090813	WS-010(3.5-4.0)090813	WS-010(1.5-2.0)090913	WS-010(3.5-4.0)090913	WS-010(1.5-2.0)091013	WS-010(3.5-4.0)091013	WS-010(1.5-2.0)091113	WS-010(3.5-4.0)091113	WS-010(1.5-2.0)091213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	16	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/12/2013	9/13/2013	9/13/2013	9/14/2013	9/14/2013	9/15/2013	9/15/2013	9/16/2013	9/16/2013	9/17/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)091213	WS-010(1.5-2.0)091313	WS-010(3.5-4.0)091313	WS-010(1.5-2.0)091413	WS-010(3.5-4.0)091413	WS-010(1.5-2.0)091513	WS-010(3.5-4.0)091513	WS-010(1.5-2.0)091613	WS-010(3.5-4.0)091613	WS-010(1.5-2.0)091713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	73	73	73	73	73	74	73	73	73
Dissolved Oxygen	mg/l	2.82	3.05	3.01	3.69	3.26	3.75	3.33	4.75	4.41	4.83
pH	SU	7.44	7.61	7.54	7.91	7.65	8.02	7.71	8.27	8.13	8.34
Temperature	deg C	29.19	28.14	28.15	26.08	25.95	26.1	25.89	26.1	26.16	26.53
Turbidity	NTU	8.3	8.8	8.9	10.2	10	9.8	10.3	11.3	12.7	10.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0091 J	< 0.0200 U	0.0089 J	0.0095 J	< 0.0200 U	< 0.0200 U	0.0087 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0206	0.0170	0.0189	0.0239	0.0262	0.0205	0.0214	0.0227	0.0233	0.0220
Barium - Total	mg/L	0.0913	0.0577	0.0556	0.0611	0.0604	0.0541	0.0591	0.0460	0.0469	0.0432
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.19	7.40	7.38	6.96	6.85	6.84	6.92	6.90	6.82	7.28
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.14	3.24	3.29	3.18	3.14	3.17	3.20	3.14	3.11	3.34
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.9	31.8	32.0	30.5	30.0	30.1	30.4	30.2	29.8	31.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Chrysene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.053 UJ	< 0.052 UJ	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Fluorene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U
Pyrene - Total	ug/l	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.052 U	0.014 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UB	1.7 J	1.5 J	< 5.0 U	< 5.0 U	2.1 J	3.2 J	2.4 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/12/2013	9/13/2013	9/13/2013	9/14/2013	9/14/2013	9/15/2013	9/15/2013	9/16/2013	9/16/2013	9/17/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)091213	WS-010(1.5-2.0)091313	WS-010(3.5-4.0)091313	WS-010(1.5-2.0)091413	WS-010(3.5-4.0)091413	WS-010(1.5-2.0)091513	WS-010(3.5-4.0)091513	WS-010(1.5-2.0)091613	WS-010(3.5-4.0)091613	WS-010(1.5-2.0)091713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/17/2013	9/18/2013	9/18/2013	9/19/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/21/2013	9/22/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)091713	WS-010(1.5-2.0)091813	WS-010(3.5-4.0)091813	WS-010(1.5-2.0)091913	WS-010(3.5-4.0)091913	WS-010(1.5-2.0)092013	WS-010(3.5-4.0)092013	WS-010(1.5-2.0)092113	WS-010(3.5-4.0)092113	WS-010(1.5-2.0)092213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	74	74	74	73	74	73	73	72
Dissolved Oxygen	mg/l	3.95	4.55	4.27	1.54	1.58	4.5	4.22	3.01	2.86	4.52
pH	SU	8.24	8.39	8.25	7.52	7.41	8.29	8.25	7.75	7.57	7.57
Temperature	deg C	26.33	27.74	27.24	26.91	26.87	27.7	27.71	24.31	24.35	24.04
Turbidity	NTU	13.2	10.4	11.2	10.8	11.6	10.1	14	9.5	8.4	9.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0082 J	0.0069 J	0.0089 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0220	0.0181	0.0190	0.0216	0.0202	< 0.0203 UB	< 0.0216 UB	0.0249	0.0257	0.0198
Barium - Total	mg/L	0.0434	0.0385	0.0443	0.0552	0.0577	0.0706	0.0728	0.0557	0.0567	0.0488
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.19	6.67	6.71	6.73	6.96	6.84	6.90	6.80	6.69	6.85
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.31	3.05	3.07	3.10	3.19	3.09	3.14	3.15	3.12	3.12
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	0.0019 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.6	29.2	29.4	29.6	30.5	29.8	30.2	30.0	29.6	29.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/17/2013	9/18/2013	9/18/2013	9/19/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/21/2013	9/22/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)091713	WS-010(1.5-2.0)091813	WS-010(3.5-4.0)091813	WS-010(1.5-2.0)091913	WS-010(3.5-4.0)091913	WS-010(1.5-2.0)092013	WS-010(3.5-4.0)092013	WS-010(1.5-2.0)092113	WS-010(3.5-4.0)092113	WS-010(1.5-2.0)092213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/22/2013	9/23/2013	9/23/2013	9/24/2013	9/24/2013	9/25/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)092213	WS-010(1.5-2.0)092313	WS-010(3.5-4.0)092313	WS-010(1.5-2.0)092413	WS-010(3.5-4.0)092413	WS-010(1.5-2.0)092513	WS-010(3.5-4.0)092513	WS-010(1.5-2.0)092613	WS-010(3.5-4.0)092613	WS-010(1.5-2.0)092713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	72	72	73	73	72	72	72	72	73
Dissolved Oxygen	mg/l	3.76	5.22	12	5.47	4.69	3.73	3.9	3.86	4.06	4.13
pH	SU	7.38	8.77	8.58	8.86	8.71	7.24	7.18	8.21	8.16	7.95
Temperature	deg C	24.06	23.96	23.81	24.47	24.34	24.16	24.15	24.5	24.58	25.48
Turbidity	NTU	9.4	11.5	11.7	14.7	17.6	13.2	15.5	12.6	14.9	12.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0198	0.0184	0.0186	0.0208	0.0217	0.0209	0.0232	0.0216	0.0223	0.0218
Barium - Total	mg/L	0.0480	0.0409	0.0435	0.0434	0.0427	0.0523	0.0507	0.0491	0.0520	0.0375
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.93	6.67	6.76	6.63	6.58	6.99	6.71	6.79	6.70	6.52
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.17	3.08	3.12	3.06	3.04	3.20	3.07	3.18	3.15	3.07
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0025 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.4	29.3	29.7	29.1	29.0	30.6	29.4	30.0	29.7	28.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.056 U	< 0.056 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/22/2013	9/23/2013	9/23/2013	9/24/2013	9/24/2013	9/25/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)092213	WS-010(1.5-2.0)092313	WS-010(3.5-4.0)092313	WS-010(1.5-2.0)092413	WS-010(3.5-4.0)092413	WS-010(1.5-2.0)092513	WS-010(3.5-4.0)092513	WS-010(1.5-2.0)092613	WS-010(3.5-4.0)092613	WS-010(1.5-2.0)092713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	3.5 J	3.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/27/2013	9/28/2013	9/28/2013	9/29/2013	9/29/2013	9/30/2013	9/30/2013	10/1/2013	10/1/2013	10/2/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)092713	WS-010(1.5-2.0)092813	WS-010(3.5-4.0)092813	WS-010(1.5-2.0)092913	WS-010(3.5-4.0)092913	WS-010(1.5-2.0)093013	WS-010(3.5-4.0)093013	WS-010(1.5-2.0)100113	WS-010(3.5-4.0)100113	WS-010(1.5-2.0)100213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	73	73	73	73	73	73	72	72	73
Dissolved Oxygen	mg/l	1.03	3.66	2.36	3.5	2.53	2.41	2.21	3.1	2.56	2.3
pH	SU	7.44	7.72	7.61	6.97	6.81	7.71	7.41	7.45	7.5	7.76
Temperature	deg C	25.17	25.86	25.85	25.64	25.72	24.94	24.94	25.55	25.53	25.12
Turbidity	NTU	13.7	11.1	11.7	10.6	10.5	16	11.1	13	11.7	8.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0230	0.0215	0.0241	0.0179	0.0214	< 0.0217 UB	< 0.0209 UB	0.0205	0.0203	0.0208
Barium - Total	mg/L	0.0609	0.0469	0.0465	0.0454	0.0450	0.0446	0.0441	0.0425	0.0412	0.0585
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.63	6.70	6.76	6.41	6.29	6.57	6.43	6.57	6.38	6.48
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0057 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.12	3.12	3.15	3.01	2.96	3.04	2.99	3.05	2.95	3.05
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 UB	0.000084 J	0.000087 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0046 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.4	29.6	29.8	28.4	27.9	28.9	28.4	28.9	28.1	28.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	0.011 J	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.054 U	< 0.052 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.058 U	< 0.058 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		9/27/2013	9/28/2013	9/28/2013	9/29/2013	9/29/2013	9/30/2013	9/30/2013	10/1/2013	10/1/2013	10/2/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)092713	WS-010(1.5-2.0)092813	WS-010(3.5-4.0)092813	WS-010(1.5-2.0)092913	WS-010(3.5-4.0)092913	WS-010(1.5-2.0)093013	WS-010(3.5-4.0)093013	WS-010(1.5-2.0)100113	WS-010(3.5-4.0)100113	WS-010(1.5-2.0)100213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/2/2013	10/3/2013	10/3/2013	10/4/2013	10/4/2013	10/5/2013	10/5/2013	10/6/2013	10/6/2013	10/7/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)100213	WS-010(1.5-2.0)100313	WS-010(3.5-4.0)100313	WS-010(1.5-2.0)100413	WS-010(3.5-4.0)100413	WS-010(1.5-2.0)100513	WS-010(3.5-4.0)100513	WS-010(1.5-2.0)100613	WS-010(3.5-4.0)100613	WS-010(1.5-2.0)100713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	74	74	74	74	74	NA	NA	NA
Dissolved Oxygen	mg/l	2.08	2.49	2.3	1.85	1.53	2.14	1.75	NA	NA	NA
pH	SU	7.46	7.75	7.61	7.59	7.37	7.61	7.42	NA	NA	NA
Temperature	deg C	25.13	25.12	25.16	25.15	24.99	25.27	25.01	NA	NA	NA
Turbidity	NTU	9.3	10.5	10.8	9.3	9.8	9.3	9.1	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	0.0069 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0212	0.0308	0.0250	0.0212	0.0217	0.0222	0.0221	0.0214	0.0213	0.0236
Barium - Total	mg/L	0.0633	0.0790	0.0620	0.0526	0.0500	0.0446	0.0471	0.0655	0.0675	0.0518
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.65	7.05	6.80	6.58	6.51	6.40	6.33	6.28	6.33	6.00
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.13	3.22	3.21	3.09	3.06	3.01	2.98	2.95	2.97	2.88
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0016 J	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.5	30.9	30.2	29.1	28.8	28.4	28.1	27.8	28.0	26.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Chrysene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Fluorene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	0.097	0.097	< 0.050 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.050 U
Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.052 U	< 0.056 U	< 0.054 U	< 0.056 U	0.030 J	< 0.053 U	< 0.053 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/2/2013	10/3/2013	10/3/2013	10/4/2013	10/4/2013	10/5/2013	10/5/2013	10/6/2013	10/6/2013	10/7/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)100213	WS-010(1.5-2.0)100313	WS-010(3.5-4.0)100313	WS-010(1.5-2.0)100413	WS-010(3.5-4.0)100413	WS-010(1.5-2.0)100513	WS-010(3.5-4.0)100513	WS-010(1.5-2.0)100613	WS-010(3.5-4.0)100613	WS-010(1.5-2.0)100713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/7/2013	10/8/2013	10/8/2013	10/9/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/11/2013	10/12/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)100713	WS-010(1.5-2.0)100813	WS-010(3.5-4.0)100813	WS-010(1.5-2.0)100913	WS-010(3.5-4.0)100913	WS-010(1.5-2.0)101013	WS-010(3.5-4.0)101013	WS-010(1.5-2.0)101113	WS-010(3.5-4.0)101113	WS-010(1.5-2.0)101213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	82	82	84	84	82	82	81
Dissolved Oxygen	mg/l	NA	NA	NA	8.62	9.02	5.55	5.59	8.82	4.42	6.96
pH	SU	NA	NA	NA	7	6.95	7.29	6.99	7.18	6.71	6.76
Temperature	deg C	NA	NA	NA	20.16	20.19	21.16	21.18	21.42	21.47	21.86
Turbidity	NTU	NA	NA	NA	23.6	26.2	23.4	23.1	72.1	20.1	18.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0229	0.0203	0.0213	0.0205	0.0203	0.0213	0.0213	0.0200	0.0211	0.0196
Barium - Total	mg/L	0.0539	0.0392	0.0409	0.0389	0.0419	0.0389	0.0399	0.0363	0.0370	0.0356
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.02	6.01	6.06	5.97	6.09	5.87	5.86	5.76	5.82	5.61
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.86	2.86	2.91	2.89	2.94	2.86	2.86	2.80	2.82	2.73
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.8	26.8	27.1	26.8	27.3	26.5	26.4	25.9	26.1	25.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.043 J	0.048 J	< 0.052 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.9 J	< 5.0 U	2.3 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/7/2013	10/8/2013	10/8/2013	10/9/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/11/2013	10/12/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)100713	WS-010(1.5-2.0)100813	WS-010(3.5-4.0)100813	WS-010(1.5-2.0)100913	WS-010(3.5-4.0)100913	WS-010(1.5-2.0)101013	WS-010(3.5-4.0)101013	WS-010(1.5-2.0)101113	WS-010(3.5-4.0)101113	WS-010(1.5-2.0)101213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/12/2013	10/13/2013	10/13/2013	10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)101213	WS-010(1.5-2.0)101313	WS-010(3.5-4.0)101313	WS-010(1.5-2.0)101413	WS-010(3.5-4.0)101413	WS-010(1.5-2.0)101513	WS-010(3.5-4.0)101513	WS-010(1.5-2.0)101613	WS-010(3.5-4.0)101613	WS-010(1.5-2.0)101713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	81	81	81	81	81	81	79	79	78
Dissolved Oxygen	mg/l	7.21	4.83	4.51	4.88	5.09	4.51	5.11	2.99	3.25	4.09
pH	SU	6.6	6.89	7.18	6.86	6.73	6.71	6.53	7.13	6.88	6.55
Temperature	deg C	21.83	22.43	22.45	20.68	20.91	20.55	20.71	20.11	20.19	19.36
Turbidity	NTU	20	21	21.3	22.3	23.2	21.7	26.3	21.6	22.1	23.2
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0201	0.0178	0.0182	0.0175	0.0175	0.0203	0.0211	0.0183	0.0188	0.0185
Barium - Total	mg/L	0.0387	0.0328	0.0322	0.0311	0.0308	0.0339	0.0339	0.0351	0.0367	0.0355
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.71	5.24	5.14	5.20	5.26	5.27	5.20	5.05	5.15	5.24
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.79	2.52	2.47	2.55	2.59	2.60	2.58	2.48	2.53	2.51
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.7	23.5	23.0	23.5	23.8	23.9	23.6	22.8	23.3	23.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.070 UB	< 0.053 UB	< 0.052 UB	< 0.057 UB	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.078 UB
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.057 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/12/2013	10/13/2013	10/13/2013	10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)101213	WS-010(1.5-2.0)101313	WS-010(3.5-4.0)101313	WS-010(1.5-2.0)101413	WS-010(3.5-4.0)101413	WS-010(1.5-2.0)101513	WS-010(3.5-4.0)101513	WS-010(1.5-2.0)101613	WS-010(3.5-4.0)101613	WS-010(1.5-2.0)101713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/17/2013	10/18/2013	10/18/2013	10/19/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013	10/21/2013	10/22/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)101713	WS-010(1.5-2.0)101813	WS-010(3.5-4.0)101813	WS-010(1.5-2.0)101913	WS-010(3.5-4.0)101913	WS-010(1.5-2.0)102013	WS-010(3.5-4.0)102013	WS-010(1.5-2.0)102113	WS-010(3.5-4.0)102113	WS-010(1.5-2.0)102213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	79	78	80	79	77	77	77	76	77
Dissolved Oxygen	mg/l	3.81	4.47	4.46	4.75	4.4	5.63	4.84	4.29	3.67	5.68
pH	SU	6.44	6.72	6.64	7.02	6.87	6.94	6.86	6.63	6.5	6.39
Temperature	deg C	19.26	18.67	18.56	17.58	17.97	17.39	17.32	17.15	16.83	16.69
Turbidity	NTU	23.4	22.9	24.1	26.9	27.6	28.4	27.7	21.3	24.4	21.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0082 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0187	0.0182	0.0192	0.0175	0.0180	0.0174	0.0177	0.0177	0.0180	0.0191
Barium - Total	mg/L	0.0355	0.0329	0.0333	0.0325	0.0339	0.0343	0.0324	0.0313	0.0323	0.0318
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.27	4.96	4.96	4.93	4.98	5.19	4.93	4.71	4.79	4.83
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.55	2.46	2.48	2.41	2.46	2.60	2.47	2.33	2.38	2.42
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	23.6	22.5	22.6	22.2	22.6	23.7	22.5	21.4	21.7	22.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.6 J	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	2.8 J	2.1 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/17/2013	10/18/2013	10/18/2013	10/19/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013	10/21/2013	10/22/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)101713	WS-010(1.5-2.0)101813	WS-010(3.5-4.0)101813	WS-010(1.5-2.0)101913	WS-010(3.5-4.0)101913	WS-010(1.5-2.0)102013	WS-010(3.5-4.0)102013	WS-010(1.5-2.0)102113	WS-010(3.5-4.0)102113	WS-010(1.5-2.0)102213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/22/2013	10/23/2013	10/23/2013	10/24/2013	10/24/2013	10/25/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)102213	WS-010(1.5-2.0)102313	WS-010(3.5-4.0)102313	WS-010(1.5-2.0)102413	WS-010(3.5-4.0)102413	WS-010(1.5-2.0)102513	WS-010(3.5-4.0)102513	WS-010(1.5-2.0)102613	WS-010(3.5-4.0)102613	WS-010(1.5-2.0)102713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	78	77	80	77	77	76	76	76	76
Dissolved Oxygen	mg/l	4.97	4.71	4.55	6.03	5.47	5.38	6.31	5.89	5.3	5.71
pH	SU	6.26	6.34	6.23	6.67	6.42	6.6	6.5	6.63	6.6	6.7
Temperature	deg C	16.54	16.12	16.1	15.51	16.03	14.32	14.69	14.76	14.83	14.68
Turbidity	NTU	26.2	17.9	20.9	20.1	18.7	19.8	19.1	21.5	19.6	20.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0184	0.0179	0.0180	0.0176	0.0181	0.0176	0.0175	0.0164	0.0169	0.0174
Barium - Total	mg/L	0.0321	0.0297	0.0288	0.0279	0.0276	0.0267	0.0266	0.0262	0.0263	0.0264
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.73	4.68	4.56	4.56	4.57	4.47	4.42	4.47	4.82	4.50
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0066 J	0.0060 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0054 J	< 0.0150 U
Magnesium - Total	mg/l	2.36	2.33	2.28	2.24	2.25	2.24	2.22	2.19	2.37	2.26
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	21.5	21.3	20.8	20.6	20.7	20.4	20.2	20.2	21.8	20.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	0.014 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	1.4 J	< 5.0 U	1.5 J	< 5.0 U	2.4 J	2.4 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		10/22/2013	10/23/2013	10/23/2013	10/24/2013	10/24/2013	10/25/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(3.5-4.0)102213	WS-010(1.5-2.0)102313	WS-010(3.5-4.0)102313	WS-010(1.5-2.0)102413	WS-010(3.5-4.0)102413	WS-010(1.5-2.0)102513	WS-010(3.5-4.0)102513	WS-010(1.5-2.0)102613	WS-010(3.5-4.0)102613	WS-010(1.5-2.0)102713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	0.5 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	2.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-011	WS-011
Sample Date		10/27/2013	10/28/2013	10/28/2013	10/29/2013	10/30/2013	10/30/2013	10/31/2013	10/31/2013	4/16/2013	4/16/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-010(3.5-4.0)102713	WS-010(1.5-2.0)102813	WS-010(3.5-4.0)102813	WS-010(1.5-2.0)102913	WS-010(1.5-2.0)103013	WS-010(3.5-4.0)103013	WS-010(1.5-2.0)103113	WS-010(3.5-4.0)103113	WS-011(1.5-2.0)041613	WS-011(4.0-4.5)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	75	75	75	75	74	81	81	59	59
Dissolved Oxygen	mg/l	5.62	5.23	4.55	5.74	4.58	3.84	4.76	4.26	8.79	8.77
pH	SU	6.52	6.45	6.35	6.6	6.83	6.39	6.28	6.04	6.83	6.8
Temperature	deg C	14.97	15.2	15.16	15.71	16.59	16.38	17.07	17.02	21.3	21.26
Turbidity	NTU	18.9	19.3	20.9	22.6	21.2	22.5	24.1	25.2	10.3	10.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0179	0.0172	0.0170	0.0176	0.0174	0.0177	0.0180	0.0175	NA	NA
Barium - Total	mg/L	0.0265	0.0265	0.0279	0.0285	0.0275	0.0282	0.0281	0.0302	0.0188	0.0186
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.44	4.38	4.47	4.12	4.03	4.06	4.31	4.24	2.91	2.90
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.23	2.18	2.20	2.11	2.05	2.08	2.18	2.15	1.45	1.44
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0016 J	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0011 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	20.3	19.9	20.2	19.0	18.5	18.7	19.8	19.4	13.2	13.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.046 J	0.041 J
Phenanthrene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.061 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-011	WS-011
Sample Date		10/27/2013	10/28/2013	10/28/2013	10/29/2013	10/30/2013	10/30/2013	10/31/2013	10/31/2013	4/16/2013	4/16/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-010(3.5-4.0)102713	WS-010(1.5-2.0)102813	WS-010(3.5-4.0)102813	WS-010(1.5-2.0)102913	WS-010(1.5-2.0)103013	WS-010(3.5-4.0)103013	WS-010(1.5-2.0)103113	WS-010(3.5-4.0)103113	WS-011(1.5-2.0)041613	WS-011(4.0-4.5)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/29/2013	4/29/2013	5/6/2013	5/6/2013	5/13/2013	5/13/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)042213	WS-011(5.0-5.5)042213	WS-011(1.5-2.0)042413	WS-011(5.5-6.0)042413	WS-011(1.5-2.0)042913	WS-011(4.5-5.0)042913	WS-011(1.5-2.0)050613	WS-011(5.0-5.5)050613	WS-011(1.5-2.0)051313	WS-011(5.0-5.5)051313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	54	54	68	70	54	54	58	58	80	78
Dissolved Oxygen	mg/l	9.61	9.51	8.33	7.92	9	7.07	8.18	8.05	8.88	7.49
pH	SU	7.08	7.09	6.67	6.73	6.49	6.42	6.43	6.58	6.48	6.55
Temperature	deg C	19.8	19.71	18.66	18.02	19.01	17.82	15.87	15.73	21.37	21.02
Turbidity	NTU	11	11.6	NA	NA	17.9	16	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0181	0.0183	0.0213	0.0209	0.0204	0.0200	0.0206	0.0211	0.0181	0.0180
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	2.96	3.01	3.17	3.16	3.11	3.07	3.27	3.24	3.33	3.38
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0011 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.48	1.52	1.61	1.61	1.56	1.55	1.64	1.63	1.66	1.68
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0074	0.00087	0.0045	0.00010 J
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0018 J	0.0015 J	0.0015 J	0.0019 J	0.0013 J	0.0016 J	0.0014 J	0.0016 J	0.0012 J	0.0019 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	13.5	13.8	14.6	14.5	14.2	14.0	14.9	14.8	15.1	15.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	0.016 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	0.026 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	0.069
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.052	0.063
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	0.041 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/29/2013	4/29/2013	5/6/2013	5/6/2013	5/13/2013	5/13/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)042213	WS-011(5.0-5.5)042213	WS-011(1.5-2.0)042413	WS-011(5.5-6.0)042413	WS-011(1.5-2.0)042913	WS-011(4.5-5.0)042913	WS-011(1.5-2.0)050613	WS-011(5.0-5.5)050613	WS-011(1.5-2.0)051313	WS-011(5.0-5.5)051313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		5/20/2013	5/20/2013	5/29/2013	5/29/2013	6/3/2013	6/3/2013	6/19/2013	6/19/2013	7/1/2013	7/1/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-011(1.5-2.0)052013	WS-011(5.5-6.0)052013	WS-011(1.5-2.0)052913	WS-011(5.5-6.0)052913	WS-011(1.5-2.0)060313	WS-011(5.5-6.0)060313	WS-011(1.5-2.0)061913	WS-011(5.5-6.0)061913	WS-011(1.5-2.0)070113	WS-011(5.5-6.0)070113
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	86	85	73	73	91	98	104	105	119	118
Dissolved Oxygen	mg/l	7.36	7.27	7.55	7.52	7.98	7.92	7.51	2.25	7.43	6.82
pH	SU	6.28	6.4	6.7	6.69	6.76	6.65	6.49	6.6	6.72	6.78
Temperature	deg C	24.57	24.49	25.24	25.2	24.45	24.43	28.98	28.58	28.01	27.91
Turbidity	NTU	NA	NA	11.2	11.3	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0210	0.0216	0.0194	0.0196	0.0185	0.0187	0.0182	0.0209	0.0277	0.0292
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.79	3.85	3.92	3.93	4.10	4.04	4.93	5.00	5.44	5.51
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.82	1.86	1.92	1.93	1.92	1.88	2.30 J	2.32 J	2.54	2.59
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.00093	0.00095	0.0012	0.00085	0.00036	0.00036	0.00094	0.00051	< 0.0065 UB	< 0.00057 UB
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0013 J	< 0.0100 U	0.0011 J	0.0016 J	0.0014 J	0.0012 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	17.0	17.3	17.7	17.8	18.1	17.9	21.8	22.0	24.1	24.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	0.044 J	< 0.051 U	< 0.051 U	0.041 J	0.040 J	< 0.051 U	< 0.051 U	< 0.055 U	0.049 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		5/20/2013	5/20/2013	5/29/2013	5/29/2013	6/3/2013	6/3/2013	6/19/2013	6/19/2013	7/1/2013	7/1/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-011(1.5-2.0)052013	WS-011(5.5-6.0)052013	WS-011(1.5-2.0)052913	WS-011(5.5-6.0)052913	WS-011(1.5-2.0)060313	WS-011(5.5-6.0)060313	WS-011(1.5-2.0)061913	WS-011(5.5-6.0)061913	WS-011(1.5-2.0)070113	WS-011(5.5-6.0)070113
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.1 J	2.4 J	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	0 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)071513	WS-011(1.5-2.0)071613	WS-011(SURFACE)071713	WS-011(1.5-2.0)071813	WS-011(1.5-2.0)071913	WS-011(1.5-2.0)072013	WS-011(1.5-2.0)072113	WS-011(1.5-2.0)072213	WS-011(1.5-2.0)072313	WS-011(5.0-5.5)072313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	87	88	87	101	92	87	83	80	82	82
Dissolved Oxygen	mg/l	4.78	4.86	4.8	6.66	4.23	6.43	3.97	5.61	5.52	3.5
pH	SU	6.86	6.89	6.73	7.7	7.21	7.76	7.37	7.37	7.49	7.22
Temperature	deg C	28.93	29.61	29.84	30.26	29.75	29.95	29.35	28.82	29.16	28.57
Turbidity	NTU	22.1	21.3	18.1	NA	16.9	23.3	20.7	20.2	21	21
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0109	< 0.0118 UB	0.0119	0.0080	< 0.0090 UB	< 0.0095 UB	0.0112	< 0.0159 UB	0.0171	0.0189
Barium - Total	mg/L	0.0372	0.0324	0.0334	0.0236	0.0534	0.0347	0.0379	0.0417	0.0417	0.0514
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.93	5.99	5.75	6.06	6.03	5.83 J	5.90 J	5.92	5.69	5.78
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 UB	< 0.0150 U	0.0026 J	0.0020 J	< 0.0150 UB	0.0023 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.77	2.86	2.72	2.86 J	2.80	2.84 J	2.76 J	2.79 J	2.68	2.73
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00044	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 UB	< 0.0100 U	0.0020 J	0.0024 J	< 0.0100 UB	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.2	26.7	25.6	26.9	26.6	26.2	26.1	26.3	25.2	25.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	0.012 J	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.14 UB	< 0.051 UB	< 0.16 UB	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	0.040 J	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 UJ	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	0 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)071513	WS-011(1.5-2.0)071613	WS-011(SURFACE)071713	WS-011(1.5-2.0)071813	WS-011(1.5-2.0)071913	WS-011(1.5-2.0)072013	WS-011(1.5-2.0)072113	WS-011(1.5-2.0)072213	WS-011(1.5-2.0)072313	WS-011(5.0-5.5)072313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		7/25/2013	7/25/2013	7/26/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013	7/29/2013	7/29/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)072513	WS-011(5.0-5.5)072513	WS-011(1.5-2.0)072613	WS-011(5.0-5.5)072613	WS-011(1.5-2.0)072713	WS-011(5.0-5.5)072713	WS-011(1.5-2.0)072813	WS-011(5.0-5.5)072813	WS-011(1.5-2.0)072913	WS-011(5.0-5.5)072913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	79	81	79	79	76	76	76	77	77	77
Dissolved Oxygen	mg/l	5.81	3.01	4.75	4.33	3.57	3.47	5.89	3.8	7.56	6.21
pH	SU	7.52	7.17	7.38	7.33	7.22	7.15	7.8	7.41	8.59	8.49
Temperature	deg C	28.1	27.65	27.7	27.71	26.31	26.15	26.67	26.55	27.8	27.63
Turbidity	NTU	17.5	17.5	20.7	20.7	19	19	12.9	12.9	17	17
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0179 UB	< 0.0211 UB	0.0174	0.0179	0.0178	0.0171	< 0.0138 UB	< 0.0149 UB	< 0.010 UB	< 0.0099 UB
Barium - Total	mg/L	0.0390	0.0531	0.0431	0.0439	0.0339	0.0346	< 0.0284 UB	0.0327	< 0.0280 UB	< 0.0284 UB
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.09	6.03	5.86	5.91	5.47	5.59	5.64 J	5.71 J	5.73	5.80
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0018 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.85	2.83	2.79	2.82	2.62	2.68	2.65 J	2.71 J	2.73	2.76
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0020 J	0.0017 J	0.0026 J	< 0.0100 U	< 0.0100 U	0.0021 J	0.0023 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	0.0022 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.0	26.7	26.1	26.4	24.4	25.0	25.0	25.4	25.5	25.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 UB	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	NA	NA	< 0.051 U	< 0.051 U	< 0.057 U	< 0.058 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.2	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		7/25/2013	7/25/2013	7/26/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013	7/29/2013	7/29/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)072513	WS-011(5.0-5.5)072513	WS-011(1.5-2.0)072613	WS-011(5.0-5.5)072613	WS-011(1.5-2.0)072713	WS-011(5.0-5.5)072713	WS-011(1.5-2.0)072813	WS-011(5.0-5.5)072813	WS-011(1.5-2.0)072913	WS-011(5.0-5.5)072913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		7/30/2013	7/30/2013	7/31/2013	7/31/2013	8/1/2013	8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)073013	WS-011(5.0-5.5)073013	WS-011(1.5-2.0)073113	WS-011(5.0-5.5)073113	WS-011(1.5-2.0)080113	WS-011(5.0-5.5)080113	WS-011(1.5-2.0)080213	WS-011(5.0-5.5)080213	WS-011(1.5-2.0)080313	WS-011(5.0-5.5)080313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	78	79	78	80	79	80	85	82	82
Dissolved Oxygen	mg/l	5.25	4.72	6.61	5.71	5.12	1.87	6.58	1.05	6.47	4.1
pH	SU	7.55	7.52	7.87	7.88	7.49	7.22	8.08	7.41	8.03	7.73
Temperature	deg C	27.69	27.66	28.49	28.25	28.42	27.54	29.05	28.09	29.3	28.83
Turbidity	NTU	18.7	18.7	21.8	21.8	18.7	18.7	18.7	18.7	17.7	17.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 UB
Barium - Dissolved	mg/l	< 0.0127 UB	< 0.0135 UB	< 0.0128 UB	< 0.0128 UB	< 0.0126 UB	< 0.0142 UB	0.0092	0.0121	< 0.0101 UB	< 0.0118 UB
Barium - Total	mg/L	0.0340	0.0358	0.0327	< 0.0314 UB	0.0316	0.0375	0.0254	0.0331	0.0381	0.0399
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.00	5.91	5.73	5.71	5.74	5.79	5.77	5.94	5.89	5.82
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0020 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0024 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.87 J	2.81 J	2.72	2.69	2.69	2.69	2.71	2.78	2.82	2.79
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00018 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	0.0016 J	0.0017 J	0.0025 J	0.0019 J	0.0018 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.8	26.3	25.5	25.3	25.4	25.5	25.6	26.3	26.3	26.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Anthracene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Chrysene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Fluorene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
Pyrene - Total	ug/l	< 0.055 U	< 0.055 U	< 0.054 U	< 0.053 U	< 0.050 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.053 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		7/30/2013	7/30/2013	7/31/2013	7/31/2013	8/1/2013	8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)073013	WS-011(5.0-5.5)073013	WS-011(1.5-2.0)073113	WS-011(5.0-5.5)073113	WS-011(1.5-2.0)080113	WS-011(5.0-5.5)080113	WS-011(1.5-2.0)080213	WS-011(5.0-5.5)080213	WS-011(1.5-2.0)080313	WS-011(5.0-5.5)080313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/4/2013	8/4/2013	8/5/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)080413	WS-011(5.0-5.5)080413	WS-011(1.5-2.0)080513	WS-011(5.0-5.5)080513	WS-011(1.5-2.0)080613	WS-011(5.0-5.5)080613	WS-011(1.5-2.0)080713	WS-011(5.0-5.5)080713	WS-011(1.5-2.0)080813	WS-011(5.0-5.5)080813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	85	80	80	80	81	85	87	87	88
Dissolved Oxygen	mg/l	5.62	2.56	3.87	2.59	5.87	2.6	8.12	0.47	4.69	2.03
pH	SU	7.92	7.04	7.31	7.03	7.7	7.32	8.5	7.71	7.66	7.33
Temperature	deg C	29.11	28.35	29.07	28.52	29.29	28.66	30.58	28.61	30.6	29.85
Turbidity	NTU	17.8	17.8	24.2	24.2	18.8	18.8	13.4	13.4	25.9	25.9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0093 J	0.010 J	< 0.0200 U	< 0.0200 U	0.0079 J	0.0095 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0098	0.0113	0.0139	0.0138	0.0090	0.0105	0.0057	0.0079	0.0115	0.0139
Barium - Total	mg/L	0.0284	0.0317	0.0366	0.0514	0.0246	0.0348	0.0187	0.0244	0.0336	0.0558
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.80	5.81	5.96	5.97	5.71	5.79	5.81	5.90	6.04	6.12
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.75	2.77	2.77	2.76	2.67	2.67	2.68	2.70	2.81	2.82
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0025 J	0.0022 J	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.8	25.9	26.3	26.3	25.2	25.5	25.5	25.8	26.7	26.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	3.4 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/4/2013	8/4/2013	8/5/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)080413	WS-011(5.0-5.5)080413	WS-011(1.5-2.0)080513	WS-011(5.0-5.5)080513	WS-011(1.5-2.0)080613	WS-011(5.0-5.5)080613	WS-011(1.5-2.0)080713	WS-011(5.0-5.5)080713	WS-011(1.5-2.0)080813	WS-011(5.0-5.5)080813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/9/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)080913	WS-011(5.0-5.5)080913	WS-011(1.5-2.0)081013	WS-011(5.0-5.5)081013	WS-011(1.5-2.0)081113	WS-011(5.0-5.5)081113	WS-011(1.5-2.0)081213	WS-011(5.0-5.5)081213	WS-011(1.5-2.0)081413	WS-011(5.0-5.5)081413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	80	85	87	87	85	86	84	85	84	83
Dissolved Oxygen	mg/l	4.41	4.04	3.39	2.72	4.74	2.71	5.99	4.93	4.17	3.12
pH	SU	7.48	7.41	7.31	7.22	7.25	7.21	7.53	7.44	7.34	7.14
Temperature	deg C	30.09	29.87	29.64	29.56	29.77	29.17	29.49	29.27	27.68	27.5
Turbidity	NTU	15.6	15.6	18.4	18.4	27.9	27.9	18.2	18.2	27.3	27.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0092	0.0108	0.0143	0.0117	0.0117	0.0125	0.0138	0.0115	0.0152	0.0158
Barium - Total	mg/L	0.0395	0.0571	0.0410	0.0448	0.0422	0.0532	0.0288	0.0329	0.0558	0.0636
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.10	6.20	6.32	6.48	6.18	6.30	6.21	6.19	6.12	6.13
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J	0.0019 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.82	2.90	2.91	3.00	2.86	2.94	2.87	2.86	2.87	2.89
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000073 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	0.0019 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.8	27.4	27.8	28.5	27.2	27.8	27.3	27.2	27.1	27.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Chrysene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Fluorene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/9/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)080913	WS-011(5.0-5.5)080913	WS-011(1.5-2.0)081013	WS-011(5.0-5.5)081013	WS-011(1.5-2.0)081113	WS-011(5.0-5.5)081113	WS-011(1.5-2.0)081213	WS-011(5.0-5.5)081213	WS-011(1.5-2.0)081413	WS-011(5.0-5.5)081413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/15/2013	8/15/2013	8/16/2013	8/16/2013	8/17/2013	8/17/2013	8/18/2013	8/18/2013	8/19/2013	8/19/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)081513	WS-011(5.0-5.5)081513	WS-011(1.5-2.0)081613	WS-011(5.0-5.5)081613	WS-011(1.5-2.0)081713	WS-011(5.0-5.5)081713	WS-011(1.5-2.0)081813	WS-011(5.0-5.5)081813	WS-011(1.5-2.0)081913	WS-011(5.0-5.5)081913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	83	79	79	77	78	77	77	78	78
Dissolved Oxygen	mg/l	4.99	3.78	6.71	5.32	5.45	4.15	4.35	4.21	4.61	3.9
pH	SU	7.66	7.03	7.82	7.59	7.46	7.19	7.41	7.31	7.61	7.6
Temperature	deg C	26.54	26.28	26.29	26.08	25.52	24.89	25.02	24.91	26.12	25.42
Turbidity	NTU	22.2	22.2	15.6	21.6	15.7	22.1	19.2	20.3	18.3	23.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0169	0.0176	0.0163	0.0166	0.0162	0.0349	0.0166	0.0158	< 0.0150 UB	< 0.0185 UB
Barium - Total	mg/L	0.0529	0.0545	0.0403	0.0504	0.0386	0.0505	0.0501	0.0446	0.0368	0.0808
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.95	5.97	6.05	6.13	5.84	6.03	6.04	5.84	5.94	6.19
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U	0.0017 J	0.0017 J	< 0.0150 U	0.0018 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.80	2.83	2.84	2.91	2.76	2.91	2.86	2.79	2.83	3.03
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0015 J	0.0016 J	< 0.0100 U	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.4	26.5	26.8	27.3	26.0	27.0	26.9	26.1	26.5	27.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.053 U	< 0.044 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.052 U	< 0.057 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/15/2013	8/15/2013	8/16/2013	8/16/2013	8/17/2013	8/17/2013	8/18/2013	8/18/2013	8/19/2013	8/19/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)081513	WS-011(5.0-5.5)081513	WS-011(1.5-2.0)081613	WS-011(5.0-5.5)081613	WS-011(1.5-2.0)081713	WS-011(5.0-5.5)081713	WS-011(1.5-2.0)081813	WS-011(5.0-5.5)081813	WS-011(1.5-2.0)081913	WS-011(5.0-5.5)081913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/23/2013	8/23/2013	8/24/2013	8/24/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)082013	WS-011(5.0-5.5)082013	WS-011(1.5-2.0)082113	WS-011(5.0-5.5)082113	WS-011(1.5-2.0)082213	WS-011(5.0-5.5)082213	WS-011(1.5-2.0)082313	WS-011(5.0-5.5)082313	WS-011(1.5-2.0)082413	WS-011(5.0-5.5)082413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	79	82	80	84	80	82	81	97	103
Dissolved Oxygen	mg/l	7.13	2.66	8.77	1.17	6.64	2.52	5.66	2.67	3.92	1.27
pH	SU	8.1	8.01	9	8.61	8.79	8.38	8.77	8.42	7.66	7.47
Temperature	deg C	27.52	25.81	28.73	25.96	29.96	26.95	29.33	27.08	29.19	27.72
Turbidity	NTU	17.8	23	13.9	28.3	11.2	19.3	17.9	16.4	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0076 J	< 0.0200 U	< 0.0200 U	0.0070 J	0.0073 J	0.0069 J	< 0.0200 U	0.0085 J	< 0.0200 U	0.0091 J
Barium - Dissolved	mg/l	0.0093	0.0172	< 0.0077 UB	< 0.0159 UB	0.0072	0.0605	0.0110	0.0108	0.0099	< 0.0082 UB
Barium - Total	mg/L	< 0.0257 UB	0.0457	< 0.0214 UB	< 0.0420 UB	0.0206	0.149	0.0312	0.0443	0.0239	0.0292
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.60	5.70	5.85	5.96	5.97	6.40	6.11	6.16	5.92	6.30
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.69	2.80	2.81	2.86	2.86	2.97	2.87	2.86	2.80	2.98
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.1	25.7	26.2	26.7	26.7	28.2	27.1	27.1	26.3	28.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 UJ	< 0.051 UJ	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/23/2013	8/23/2013	8/24/2013	8/24/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)082013	WS-011(5.0-5.5)082013	WS-011(1.5-2.0)082113	WS-011(5.0-5.5)082113	WS-011(1.5-2.0)082213	WS-011(5.0-5.5)082213	WS-011(1.5-2.0)082313	WS-011(5.0-5.5)082313	WS-011(1.5-2.0)082413	WS-011(5.0-5.5)082413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/25/2013	8/25/2013	8/26/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)082513	WS-011(5.0-5.5)082513	WS-011(1.5-2.0)082613	WS-011(5.0-5.5)082613	WS-011(1.5-2.0)082713	WS-011(5.0-5.5)082713	WS-011(1.5-2.0)082813	WS-011(5.0-5.5)082813	WS-011(1.5-2.0)082913	WS-011(5.0-5.5)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	103	103	97	99	100	98	69	67	69	69
Dissolved Oxygen	mg/l	5.48	1.39	4.28	2.57	4.19	1.5	8.99	4.1	7.09	3.19
pH	SU	NA	NA	NA	NA	NA	NA	9.68	9.05	8.24	7.63
Temperature	deg C	29.32	28.33	29.13	28.61	30.17	28.75	31.56	30.61	30.23	29.42
Turbidity	NTU	NA	NA	NA	NA	NA	NA	14.1	10.9	8.7	6.2
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0093 J	0.0107 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0083	0.0069	0.0067	0.0064	0.0098	0.0066	0.0032 J	0.0064	0.0045 J	0.0068
Barium - Total	mg/L	0.0241	0.0223	0.0276	0.0414	0.0281	0.0196	0.0160	0.0189	0.0165	0.0201
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.15	6.20	6.34	6.29	6.33	6.39	6.40	6.40	6.28	6.34
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.87	2.93	2.92	2.91	2.93	2.99	2.94	2.94	2.90	2.92
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.2	27.5	27.9	27.7	27.9	28.2	28.1	28.1	27.6	27.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/25/2013	8/25/2013	8/26/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)082513	WS-011(5.0-5.5)082513	WS-011(1.5-2.0)082613	WS-011(5.0-5.5)082613	WS-011(1.5-2.0)082713	WS-011(5.0-5.5)082713	WS-011(1.5-2.0)082813	WS-011(5.0-5.5)082813	WS-011(1.5-2.0)082913	WS-011(5.0-5.5)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.5 J	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/30/2013	8/30/2013	8/31/2013	8/31/2013	9/1/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/3/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)083013	WS-011(5.0-5.5)083013	WS-011(1.5-2.0)083113	WS-011(5.0-5.5)083113	WS-011(1.5-2.0)090113	WS-011(5.0-5.5)090113	WS-011(1.5-2.0)090213	WS-011(5.0-5.5)090213	WS-011(1.5-2.0)090313	WS-011(5.0-5.5)090313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	72	71	71	71	71	71	73	73	74	74
Dissolved Oxygen	mg/l	6.14	5.01	6	5.92	5.08	4.2	4.16	1.75	2.25	1.21
pH	SU	9.39	8.68	9.17	8.72	8.97	8.58	8.35	7.27	7.85	7.6
Temperature	deg C	32	29.69	32.05	29.6	30.93	30.38	30.4	29.72	29.63	29.26
Turbidity	NTU	8.9	8.1	8.7	7.8	8.1	7.7	10.6	7.4	7.1	5.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	0.0091 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	0.0094 J	0.0075 J	< 0.0200 UB	< 0.0200 U
Barium - Dissolved	mg/l	0.0047 J	0.0090	0.0061	0.0105	0.0116	0.0106	< 0.0056 UB	0.0098	0.0039 J	0.0069
Barium - Total	mg/L	0.0216	0.0475	0.0177	0.0369	0.0354	0.0306	0.0263	0.0476	0.0419	0.0702
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 UJ	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.61	6.59	6.72	6.79	6.76	6.64	6.70	6.94	7.08	7.21
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.05	2.96	3.11	3.07	3.08	2.99	3.12	3.21	3.26	3.26
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000074 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.1	28.7	29.6	29.6	29.5	28.9	29.6	30.5	31.1	31.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J	1.6 J	1.5 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		8/30/2013	8/30/2013	8/31/2013	8/31/2013	9/1/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/3/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)083013	WS-011(5.0-5.5)083013	WS-011(1.5-2.0)083113	WS-011(5.0-5.5)083113	WS-011(1.5-2.0)090113	WS-011(5.0-5.5)090113	WS-011(1.5-2.0)090213	WS-011(5.0-5.5)090213	WS-011(1.5-2.0)090313	WS-011(5.0-5.5)090313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	3.2 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/4/2013	9/4/2013	9/5/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013	9/7/2013	9/8/2013	9/8/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)090413	WS-011(5.0-5.5)090413	WS-011(1.5-2.0)090513	WS-011(5.0-5.5)090513	WS-011(1.5-2.0)090613	WS-011(5.0-5.5)090613	WS-011(1.5-2.0)090713	WS-011(5.0-5.5)090713	WS-011(1.5-2.0)090813	WS-011(5.0-5.5)090813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	75	74	75	74	74	74	74	75	76
Dissolved Oxygen	mg/l	2.74	2.14	4.61	2.67	5.68	2.99	8.52	3.9	6.43	1.6
pH	SU	8.28	7.92	9.1	7.77	8.71	8.12	8.17	8.06	9.52	7.84
Temperature	deg C	29.09	28.93	29.88	28.6	29.25	28.42	29.57	28.74	29.34	28.67
Turbidity	NTU	9	10.2	10.6	11.8	10.9	13.4	10.2	9.4	7.4	5.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	0.0076 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0075 J	0.0070 J	0.0070 J	< 0.0200 UB	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0094	0.0079	0.0107	0.0149	0.0117	0.0149	0.0194	0.0222	0.0084	0.0182
Barium - Total	mg/L	0.0623	0.0801	0.0650	0.0768	0.0590	0.0712	0.0522	0.0690	0.0256	0.0306
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.17	7.18	7.30	7.27	6.99	7.06	7.13	7.05	7.36	6.74
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	< 0.0150 U	< 0.0150 U	0.0021 J	0.0026 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.21	3.25	3.33	3.37	3.20	3.26	3.23	3.23	3.32	3.07
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	0.000063 J	0.000064 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0021 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.1	31.3	31.9	32.0	30.6	31.1	31.1	30.9	32.1	29.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Chrysene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Fluorene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
Pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	2.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.0 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/4/2013	9/4/2013	9/5/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013	9/7/2013	9/8/2013	9/8/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)090413	WS-011(5.0-5.5)090413	WS-011(1.5-2.0)090513	WS-011(5.0-5.5)090513	WS-011(1.5-2.0)090613	WS-011(5.0-5.5)090613	WS-011(1.5-2.0)090713	WS-011(5.0-5.5)090713	WS-011(1.5-2.0)090813	WS-011(5.0-5.5)090813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/13/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)090913	WS-011(5.0-5.5)090913	WS-011(1.5-2.0)091013	WS-011(5.0-5.5)091013	WS-011(1.5-2.0)091113	WS-011(5.0-5.5)091113	WS-011(1.5-2.0)091213	WS-011(5.0-5.5)091213	WS-011(1.5-2.0)091313	WS-011(5.0-5.5)091313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	75	73	74	74	74	77	76	76	76
Dissolved Oxygen	mg/l	6.6	5.19	4.44	1.75	4.75	1.64	1.55	1.75	2.39	2.08
pH	SU	8.86	8.83	8.3	7.89	7.34	6.95	7.83	7.59	7.61	7.59
Temperature	deg C	29.57	29.78	29.81	29.11	29.84	29.19	29.16	28.89	28.51	28.45
Turbidity	NTU	9.5	8.5	9.5	6.1	9.1	5.8	5.5	7.4	10.7	9.7
Metals											
Arsenic - Dissolved	mg/l	0.0086 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0079 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0073 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0103 J	0.0122 J	0.0092 J	0.0074 J
Barium - Dissolved	mg/l	0.0090	0.0115	0.0150	0.0451	< 0.0152 UB	< 0.0128 UB	0.0125	0.0146	0.0148	0.0164
Barium - Total	mg/L	0.0317	0.0666	0.0406	0.176	0.0351	0.0908	0.107	0.115	0.0963	0.103
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.36	7.22	7.04	7.03	7.28	7.52	7.54	7.55	7.52	7.53
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.41	3.29	3.21	3.11	3.30	3.35	3.35	3.37	3.42	3.45
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0021 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	32.4	31.6	30.8	30.4	31.8	32.6	32.6	32.7	32.8	33.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 UJ	< 0.052 UJ
Fluorene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 UB	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.053 U	0.024 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	2.1 J	2.3 J	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/13/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)090913	WS-011(5.0-5.5)090913	WS-011(1.5-2.0)091013	WS-011(5.0-5.5)091013	WS-011(1.5-2.0)091113	WS-011(5.0-5.5)091113	WS-011(1.5-2.0)091213	WS-011(5.0-5.5)091213	WS-011(1.5-2.0)091313	WS-011(5.0-5.5)091313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/14/2013	9/14/2013	9/15/2013	9/15/2013	9/16/2013	9/16/2013	9/17/2013	9/17/2013	9/18/2013	9/18/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)091413	WS-011(5.0-5.5)091413	WS-011(1.5-2.0)091513	WS-011(5.0-5.5)091513	WS-011(1.5-2.0)091613	WS-011(5.0-5.5)091613	WS-011(1.5-2.0)091713	WS-011(5.0-5.5)091713	WS-011(1.5-2.0)091813	WS-011(5.0-5.5)091813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	75	74	74	74	74	74	74	74	74
Dissolved Oxygen	mg/l	3.7	3.19	3.75	3.23	4.34	4.11	4.33	2.8	3.37	3.08
pH	SU	8.19	7.82	8.08	7.9	8.52	8.35	8.47	8.27	8.41	7.85
Temperature	deg C	26.64	26.79	26.55	26.64	26.08	25.81	26.66	26	26.72	26.14
Turbidity	NTU	14.1	14.8	14.3	15	8.4	10	14.9	10.7	11.4	8.2
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	0.0074 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0096 J	0.0073 J	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0076 J	0.0103 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0196	0.0271	0.0253	0.0259	0.0203	0.0212	0.0225	0.0223	0.0202	0.0208
Barium - Total	mg/L	0.0833	0.0854	0.0841	0.103	0.0572	0.0555	0.0722	0.0715	0.0489	0.0490
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.10	6.96	7.20	7.19	7.16	6.85	7.39	7.22	6.87	6.98
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.31	3.25	3.36	3.36	3.32	3.21	3.46	3.35	3.17	3.24
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.4	30.7	31.8	31.8	31.5	30.3	32.7	31.8	30.2	30.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Anthracene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Chrysene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Fluorene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 UB	< 0.056 UB
Phenanthrene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
Pyrene - Total	ug/l	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U	< 0.054 U	< 0.056 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.056 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	2.5 J	2.4 J	< 5.0 U	2.9 J	< 5.0 U	3.3 J	1.5 J	< 5.0 U	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/14/2013	9/14/2013	9/15/2013	9/15/2013	9/16/2013	9/16/2013	9/17/2013	9/17/2013	9/18/2013	9/18/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)091413	WS-011(5.0-5.5)091413	WS-011(1.5-2.0)091513	WS-011(5.0-5.5)091513	WS-011(1.5-2.0)091613	WS-011(5.0-5.5)091613	WS-011(1.5-2.0)091713	WS-011(5.0-5.5)091713	WS-011(1.5-2.0)091813	WS-011(5.0-5.5)091813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/19/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/21/2013	9/22/2013	9/22/2013	9/23/2013	9/23/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)091913	WS-011(5.0-5.5)091913	WS-011(1.5-2.0)092013	WS-011(5.0-5.5)092013	WS-011(1.5-2.0)092113	WS-011(5.0-5.5)092113	WS-011(1.5-2.0)092213	WS-011(5.0-5.5)092213	WS-011(1.5-2.0)092313	WS-011(5.0-5.5)092313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	75	74	74	76	75	74	75	73	73
Dissolved Oxygen	mg/l	4.61	3.75	4.25	2.82	2.55	2.23	4.18	2.89	5.21	4.32
pH	SU	8.63	8.2	8.39	8.31	7.69	7.6	8.25	8.05	8.72	8.41
Temperature	deg C	27.09	27.01	27.01	26.9	25.13	24.92	24.2	24	24.44	23.8
Turbidity	NTU	8.7	7.8	14.5	10.7	11.6	8	11.4	9.9	11.1	11.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0098 J	0.0076 J	< 0.0200 U	< 0.0200 U	0.0071 J	0.0113 J
Barium - Dissolved	mg/l	0.0186	0.0208	< 0.0188 UB	< 0.0191 UB	0.0177	0.0187	0.0199	0.0202	0.0219	0.0211
Barium - Total	mg/L	0.0423	0.0450	0.0804	0.0817	0.0660	0.0669	0.0555	0.0635	0.0613	0.0613
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.10	7.21	6.95	7.05	7.14	7.10	6.99	6.90	7.09	6.90
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.27	3.32	3.21	3.24	3.34	3.35	3.27	3.22	3.34	3.24
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.2	31.7	30.6	30.9	31.6	31.5	30.9	30.5	31.4	30.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Anthracene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Chrysene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Fluorene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
Pyrene - Total	ug/l	< 0.054 U	< 0.056 U	< 0.055 U	< 0.052 U	< 0.052 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	2.4 J	2.3 J	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/19/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/21/2013	9/22/2013	9/22/2013	9/23/2013	9/23/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)091913	WS-011(5.0-5.5)091913	WS-011(1.5-2.0)092013	WS-011(5.0-5.5)092013	WS-011(1.5-2.0)092113	WS-011(5.0-5.5)092113	WS-011(1.5-2.0)092213	WS-011(5.0-5.5)092213	WS-011(1.5-2.0)092313	WS-011(5.0-5.5)092313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/24/2013	9/24/2013	9/25/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013	9/27/2013	9/28/2013	9/28/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)092413	WS-011(5.0-5.5)092413	WS-011(1.5-2.0)092513	WS-011(5.0-5.5)092513	WS-011(1.5-2.0)092613	WS-011(5.0-5.5)092613	WS-011(1.5-2.0)092713	WS-011(5.0-5.5)092713	WS-011(1.5-2.0)092813	WS-011(5.0-5.5)092813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	73	73	73	73	73	74	74	73
Dissolved Oxygen	mg/l	5.22	4.61	3.36	4.04	1.29	1.78	4.21	1.46	4.3	3.79
pH	SU	8.66	8.32	7.92	7.87	8.43	8.38	8.39	7.81	8.3	8.19
Temperature	deg C	24.38	23.77	24.24	24.03	24.44	24.39	25.19	24.49	25.51	25.5
Turbidity	NTU	11.7	12.1	11.3	12.8	31.8	19.8	11.5	12.4	13.6	14.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0068 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0087 J	0.0072 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0218	0.0212	0.0245	0.0248	0.0190	0.0203	0.0214	0.0242	0.0172	0.0167
Barium - Total	mg/L	0.112	0.0888	0.0670	0.0822	0.0545	0.0612	0.0405	0.0610	0.0539	0.0573
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.10	6.90	7.03	6.84	7.08	6.87	6.77	6.65	7.04	6.91
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.32	3.23	3.34	3.15	3.36	3.33	3.21	3.17	3.33	3.26
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 U	0.000088 J	0.000092 J
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	0.0024 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.4	30.5	31.3	30.1	31.5	30.9	30.1	29.7	31.3	30.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.058 U	< 0.053 U	< 0.054 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/24/2013	9/24/2013	9/25/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013	9/27/2013	9/28/2013	9/28/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)092413	WS-011(5.0-5.5)092413	WS-011(1.5-2.0)092513	WS-011(5.0-5.5)092513	WS-011(1.5-2.0)092613	WS-011(5.0-5.5)092613	WS-011(1.5-2.0)092713	WS-011(5.0-5.5)092713	WS-011(1.5-2.0)092813	WS-011(5.0-5.5)092813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/29/2013	9/29/2013	9/30/2013	9/30/2013	10/1/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/3/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)092913	WS-011(5.0-5.5)092913	WS-011(1.5-2.0)093013	WS-011(5.0-5.5)093013	WS-011(1.5-2.0)100113	WS-011(5.0-5.5)100113	WS-011(1.5-2.0)100213	WS-011(5.0-5.5)100213	WS-011(1.5-2.0)100313	WS-011(5.0-5.5)100313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	74	75	73	74	78	73	74	74
Dissolved Oxygen	mg/l	3.21	1.55	2.3	1.49	2.47	1.7	4.15	2.6	2.89	1.9
pH	SU	7.45	7.25	7.6	7.53	7.74	7.32	7.93	7.5	7.98	7.58
Temperature	deg C	25.27	25.23	25.38	25.18	25.18	25.09	25.02	25.19	25.34	25.17
Turbidity	NTU	8.4	8	11.4	10.3	11.2	9.9	9.7	9.4	11.5	10.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0171	0.0317	< 0.0188 UB	< 0.0192 UB	0.0196	0.0207	0.0193	0.0190	0.0197	0.0206
Barium - Total	mg/L	0.0395	0.0492	0.0768	0.0731	0.0515	0.0575	0.0383	0.0395	0.0524	0.0611
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.67	6.79	6.83	6.79	6.75	6.71	6.73	6.66	6.71	6.68
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.14	3.18	3.17	3.15	3.18	3.14	3.20	3.18	3.18	3.17
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	0.0015 J	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.6	30.0	30.1	29.9	30.0	29.7	30.0	29.7	29.9	29.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Chrysene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Fluorene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.061 U	< 0.057 U	< 0.054 U	< 0.054 U	< 0.051 U	< 0.056 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		9/29/2013	9/29/2013	9/30/2013	9/30/2013	10/1/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/3/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)092913	WS-011(5.0-5.5)092913	WS-011(1.5-2.0)093013	WS-011(5.0-5.5)093013	WS-011(1.5-2.0)100113	WS-011(5.0-5.5)100113	WS-011(1.5-2.0)100213	WS-011(5.0-5.5)100213	WS-011(1.5-2.0)100313	WS-011(5.0-5.5)100313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/4/2013	10/4/2013	10/5/2013	10/5/2013	10/6/2013	10/6/2013	10/7/2013	10/7/2013	10/8/2013	10/8/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)100413	WS-011(5.0-5.5)100413	WS-011(1.5-2.0)100513	WS-011(5.0-5.5)100513	WS-011(1.5-2.0)100613	WS-011(5.0-5.5)100613	WS-011(1.5-2.0)100713	WS-011(5.0-5.5)100713	WS-011(1.5-2.0)100813	WS-011(5.0-5.5)100813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	73	73	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	2.97	2.6	2.91	2.52	NA	NA	NA	NA	NA	NA
pH	SU	8.09	7.77	8.01	7.61	NA	NA	NA	NA	NA	NA
Temperature	deg C	25.49	25.4	25.39	25.27	NA	NA	NA	NA	NA	NA
Turbidity	NTU	9.6	11.4	10.1	9.4	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0195	0.0209	0.0197	0.0204	0.0207	0.0204	0.0206	0.0225	0.0217	0.0232
Barium - Total	mg/L	0.0528	0.0541	0.0451	0.0454	0.0507	0.0525	0.0458	0.0459	0.0443	0.0478
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.70	6.76	6.37	6.38	6.17	6.20	6.03	6.16	5.96	5.98
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.18	3.21	3.04	3.05	2.97	2.99	2.93	2.98	2.91	2.93
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.8	30.1	28.4	28.5	27.6	27.8	27.1	27.7	26.9	27.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/4/2013	10/4/2013	10/5/2013	10/5/2013	10/6/2013	10/6/2013	10/7/2013	10/7/2013	10/8/2013	10/8/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)100413	WS-011(5.0-5.5)100413	WS-011(1.5-2.0)100513	WS-011(5.0-5.5)100513	WS-011(1.5-2.0)100613	WS-011(5.0-5.5)100613	WS-011(1.5-2.0)100713	WS-011(5.0-5.5)100713	WS-011(1.5-2.0)100813	WS-011(5.0-5.5)100813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/9/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/13/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)100913	WS-011(5.0-5.5)100913	WS-011(1.5-2.0)101013	WS-011(5.0-5.5)101013	WS-011(1.5-2.0)101113	WS-011(5.0-5.5)101113	WS-011(1.5-2.0)101213	WS-011(5.0-5.5)101213	WS-011(1.5-2.0)101313	WS-011(5.0-5.5)101313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	81	82	82	82	82	81	81	81	81
Dissolved Oxygen	mg/l	4.41	4.14	6.34	5.89	8.5	8.43	3.21	3.22	3.46	3.35
pH	SU	7.09	6.85	7.34	7.12	7.29	6.61	6.65	6.37	6.62	6.35
Temperature	deg C	20.76	20.59	21.37	21.11	21.1	20.95	21.67	21.43	21.53	21.51
Turbidity	NTU	21.9	30.9	22.1	21	22.9	25.7	17.1	18.4	20.2	21.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0212	0.0216	0.0197	0.0199	0.0198	0.0229	0.0189	0.0200	0.0204	0.0209
Barium - Total	mg/L	0.0434	0.0502	0.0423	0.0421	0.0389	0.0472	0.0377	0.0412	0.0388	0.0390
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.96	6.00	5.72	5.75	5.51	5.72	5.34	5.49	5.66	5.70
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0030 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.94	2.99	2.90	2.91	2.72	2.89	2.60	2.72	2.78	2.79
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0026 J	< 0.0100 U	< 0.0100 U	0.0017 J	0.0016 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0021 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.0	27.3	26.2	26.3	25.0	26.2	24.1	24.9	25.6	25.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	0.014 J	< 0.052 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	0.068	0.068	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 UB	< 0.053 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.055 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/9/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/13/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)100913	WS-011(5.0-5.5)100913	WS-011(1.5-2.0)101013	WS-011(5.0-5.5)101013	WS-011(1.5-2.0)101113	WS-011(5.0-5.5)101113	WS-011(1.5-2.0)101213	WS-011(5.0-5.5)101213	WS-011(1.5-2.0)101313	WS-011(5.0-5.5)101313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/18/2013	10/18/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)101413	WS-011(5.0-5.5)101413	WS-011(1.5-2.0)101513	WS-011(5.0-5.5)101513	WS-011(1.5-2.0)101613	WS-011(5.0-5.5)101613	WS-011(1.5-2.0)101713	WS-011(5.0-5.5)101713	WS-011(1.5-2.0)101813	WS-011(5.0-5.5)101813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	81	80	80	80	80	78	78	78	78
Dissolved Oxygen	mg/l	3.7	3.87	3.69	3.71	2.74	2.6	5.02	5.06	5.48	5.38
pH	SU	6.73	6.51	7.01	6.53	7.15	6.9	7.36	7.22	6.88	6.75
Temperature	deg C	21.25	21.23	22.14	21.97	20.12	20.17	19.91	19.68	19.2	18.99
Turbidity	NTU	21.1	21.2	22.8	22.9	17.6	17.6	22.2	21.9	25	25.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0192	0.0191	0.0225	0.0226	0.0212	0.0215	0.0195	0.0210	0.0205	0.0208
Barium - Total	mg/L	0.0346	0.0380	0.0385	0.0399	0.0373	0.0381	0.0375	0.0384	0.0364	0.0388
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.44	5.32	5.44	5.46	5.26	5.13	5.37	5.31	5.01	5.41
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.72	2.71	2.71	2.74	2.64	2.55	2.67	2.65	2.55	2.75
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0043 J	0.0027 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.8	24.5	24.8	24.9	24.0	23.3	24.4	24.2	23.0	24.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.050 UB	< 0.052 UB	< 0.053 U	< 0.053 U	< 0.052 UB	< 0.052 UB	< 0.053 U	< 0.053 U	0.040 J	0.047 J
Phenanthrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	3.7 J	2.8 J	2.7 J	1.5 J	< 5.0 U	1.5 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/18/2013	10/18/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)101413	WS-011(5.0-5.5)101413	WS-011(1.5-2.0)101513	WS-011(5.0-5.5)101513	WS-011(1.5-2.0)101613	WS-011(5.0-5.5)101613	WS-011(1.5-2.0)101713	WS-011(5.0-5.5)101713	WS-011(1.5-2.0)101813	WS-011(5.0-5.5)101813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/19/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/23/2013	10/23/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)101913	WS-011(5.0-5.5)101913	WS-011(1.5-2.0)102013	WS-011(5.0-5.5)102013	WS-011(1.5-2.0)102113	WS-011(5.0-5.5)102113	WS-011(1.5-2.0)102213	WS-011(5.0-5.5)102213	WS-011(1.5-2.0)102313	WS-011(5.0-5.5)102313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	77	77	76	76	76	74	75	75	76	76
Dissolved Oxygen	mg/l	3.99	4.13	5.67	4.75	6.02	5.05	5.92	5.19	4.83	4.45
pH	SU	6.67	6.63	6.91	6.83	6.98	6.94	6.38	6.3	6.25	6.2
Temperature	deg C	18.47	18.49	18.02	18.02	18.02	17.94	18.02	17.44	16.95	16.96
Turbidity	NTU	29.1	29.2	30.4	27.8	24.5	24.8	24.3	22.9	21.8	21.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0193	0.0200	0.0183	0.0183	0.0176	0.0182	0.0191	0.0193	0.0174	0.0178
Barium - Total	mg/L	0.0354	0.0379	0.0332	0.0342	0.0313	0.0316	0.0321	0.0313	0.0286	0.0307
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.95	4.97	4.91	4.92	4.79	4.68	4.76	4.71	4.62	4.73
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.49	2.53	2.53	2.54	2.42	2.37	2.42	2.39	2.34	2.40
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	22.6	22.8	22.7	22.8	21.9	21.4	21.9	21.6	21.2	21.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.054 U	< 0.050 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.7 J	1.7 J	2.8 J	3.4 J	1.8 J	1.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/19/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/23/2013	10/23/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)101913	WS-011(5.0-5.5)101913	WS-011(1.5-2.0)102013	WS-011(5.0-5.5)102013	WS-011(1.5-2.0)102113	WS-011(5.0-5.5)102113	WS-011(1.5-2.0)102213	WS-011(5.0-5.5)102213	WS-011(1.5-2.0)102313	WS-011(5.0-5.5)102313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/24/2013	10/24/2013	10/25/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013	10/27/2013	10/28/2013	10/28/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)102413	WS-011(5.0-5.5)102413	WS-011(1.5-2.0)102513	WS-011(5.0-5.5)102513	WS-011(1.5-2.0)102613	WS-011(5.0-5.5)102613	WS-011(1.5-2.0)102713	WS-011(5.0-5.5)102713	WS-011(1.5-2.0)102813	WS-011(5.0-5.5)102813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	76	77	77	72	76	76	76	75	75
Dissolved Oxygen	mg/l	4.35	4	5.33	5.81	5.53	5.16	4.76	4.91	4.46	4.04
pH	SU	6.47	6.25	6.51	7.32	6.72	6.55	7.21	6.86	6.71	6.48
Temperature	deg C	16.86	16.71	15.69	15.7	15.1	15.1	14.51	14.6	15.26	15.09
Turbidity	NTU	20.1	20.6	22.2	24.8	23	24	21.8	22.8	20.5	20.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0180	0.0175	0.0184	0.0183	0.0173	0.0176	0.0177	0.0178	0.0182	0.0178
Barium - Total	mg/L	0.0288	0.0293	0.0299	0.0293	0.0296	0.0295	0.0292	0.0286	0.0287	0.0290
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.43	4.42	4.66	4.63	4.67	4.94	4.58	4.46	4.52	4.60
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.23	2.24	2.36	2.34	2.33	2.38	2.36	2.28	2.31	2.37
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	20.2	20.3	21.4	21.2	21.3	22.1	21.1	20.5	20.8	21.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.9 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		10/24/2013	10/24/2013	10/25/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013	10/27/2013	10/28/2013	10/28/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)102413	WS-011(5.0-5.5)102413	WS-011(1.5-2.0)102513	WS-011(5.0-5.5)102513	WS-011(1.5-2.0)102613	WS-011(5.0-5.5)102613	WS-011(1.5-2.0)102713	WS-011(5.0-5.5)102713	WS-011(1.5-2.0)102813	WS-011(5.0-5.5)102813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	0.1 J	< 0.5 UB	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/30/2013	10/30/2013	10/31/2013	10/31/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)103013	WS-011(5.0-5.5)103013	WS-011(1.5-2.0)103113	WS-011(5.0-5.5)103113	WS-012(1.5-2.0)041613	WS-012(4.0-4.5)041613	WS-012(1.5-2.0)042213	WS-012(5.0-5.5)042213	WS-012(1.5-2.0)042413	WS-012(5.0-5.5)042413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	79	79	60	57	54	54	77	75
Dissolved Oxygen	mg/l	6.11	4.75	7.25	6.58	8.69	8.73	9.27	8.45	8.35	8.01
pH	SU	6.75	7.05	6.44	6.22	6.66	6.66	6.89	6.84	6.83	6.83
Temperature	deg C	16.75	16.69	17.34	17.33	21.79	20.64	19.72	18.88	19.2	18.32
Turbidity	NTU	22.5	19.8	26.7	26.6	38	26.3	15.8	25.5	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0178	0.0173	0.0172	0.0177	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0287	0.0290	0.0285	0.0283	0.0238	0.0221	0.0200	0.0202	0.0218	0.0210
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.28	4.27	4.39	4.37	2.99	2.99	3.01	3.08	3.12	3.08
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0014 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0011 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0048 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.19	2.21	2.27	2.26	1.51	1.48	1.52	1.56	1.59	1.57
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	0.0011 J	0.0016 J	0.0013 J	0.0019 J	0.0020 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0027 J	0.0015 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	19.7	19.7	20.3	20.2	13.7	13.6	13.8	14.1	14.3	14.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.015 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.013 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.012 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.014 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.017 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.026 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.042 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.013 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	0.048 J	0.035 J	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/30/2013	10/30/2013	10/31/2013	10/31/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)103013	WS-011(5.0-5.5)103013	WS-011(1.5-2.0)103113	WS-011(5.0-5.5)103113	WS-012(1.5-2.0)041613	WS-012(4.0-4.5)041613	WS-012(1.5-2.0)042213	WS-012(5.0-5.5)042213	WS-012(1.5-2.0)042413	WS-012(5.0-5.5)042413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		4/29/2013	4/29/2013	5/6/2013	5/6/2013	5/13/2013	5/13/2013	5/20/2013	5/20/2013	5/29/2013	5/29/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)042913	WS-012(5-5.5)042913	WS-012(1.5-2.0)050613	WS-012(4.5-5.0)050613	WS-012(1.5-2.0)051313	WS-012(4.5-5.0)051313	WS-012(1.5-2.0)052013	WS-012(5.0-5.5)052013	WS-012(1.5-2.0)052913	WS-012(5.0-5.5)052913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	56	54	54	54	65	65	78	78	74	73
Dissolved Oxygen	mg/l	9.34	6.59	8.22	8.06	9.35	7.65	7.99	7.8	7.41	7.42
pH	SU	6.82	6.54	6.84	6.87	7	6.95	6.68	6.69	6.95	6.92
Temperature	deg C	20.04	18.26	16.3	16.16	21.62	21.06	24.78	24.69	25.96	25.18
Turbidity	NTU	19.4	17.7	NA	NA	NA	NA	NA	NA	14.8	14.1
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0193	0.0204	0.0218	0.0217	0.0193	0.0195	0.0200	0.0198	0.0187	0.0186
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.15	3.11	3.23	3.28	3.38	3.40	3.69	3.70	3.86	3.77
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.58	1.56	1.65	1.66	1.70	1.71	1.78	1.76	1.90	1.85
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00041	< 0.00020 U	0.00086	0.00033	0.00036	0.00031	0.00067	0.00026
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0016 J	< 0.0100 U	0.0018 J	0.0023 J	0.0019 J	0.0012 J	0.0012 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0019 J	< 0.0050 U	0.0017 J	0.0017 J	< 0.0050 U	0.0015 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	14.4	14.2	14.9	15.0	15.4	15.5	16.6	16.5	17.4	17.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	0.054	0.055	0.068	0.043 J	0.045 J	< 0.053 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		4/29/2013	4/29/2013	5/6/2013	5/6/2013	5/13/2013	5/13/2013	5/20/2013	5/20/2013	5/29/2013	5/29/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)042913	WS-012(5-5.5)042913	WS-012(1.5-2.0)050613	WS-012(4.5-5.0)050613	WS-012(1.5-2.0)051313	WS-012(4.5-5.0)051313	WS-012(1.5-2.0)052013	WS-012(5.0-5.5)052013	WS-012(1.5-2.0)052913	WS-012(5.0-5.5)052913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		6/3/2013	6/3/2013	6/19/2013	6/19/2013	7/1/2013	7/1/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft
Sample ID		WS-012(1.5-2.0)060313	WS-012(5.0-5.5)060313	WS-012(1.5-2.0)061913	WS-012(5.0-5.5)061913	WS-012(1.5-2.0)070113	WS-012(5.0-5.5)070113	WS-012(1.5-2.0)071513	WS-012(1.5-2.0)071613	WS-012(1.5-2.0)071713	WS-012(1.5-2.0)071813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	81	117	112	97	97	85	86	86	91
Dissolved Oxygen	mg/l	6.61	5.88	9.36	3.87	7.6	6.52	6.98	6.59	7.79	6.75
pH	SU	6.75	6.76	6.72	6.85	7.26	7.17	7.41	7.03	7.35	7.77
Temperature	deg C	24.36	24.17	29.67	28.71	28.49	27.89	29.18	29.75	31.01	30.34
Turbidity	NTU	NA	NA	NA	NA	NA	NA	22.7	20.4	14.7	14.6
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	0.0130	< 0.0117 UB	0.0109	0.0111
Barium - Total	mg/L	0.0221	0.0209	0.0159	0.0173	0.0289	0.0396	0.0322	0.0280	0.0268	0.0212
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.83	3.88	4.73	4.73	5.41	5.39	5.64	5.94	5.62	5.81
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 UB	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.82	1.82	2.17 J	2.17 J	2.50	2.51	2.58	2.75	2.61	2.68 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0011
Mercury - Total	mg/L	0.00055	0.00030	0.0012	0.00096	< 0.0010 UB	< 0.00067 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0011 UB
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0019 J	0.0023 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 UB	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0016 J	0.0018 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	17.1	17.2	20.7	20.7	23.8	23.8	24.7	26.1	24.8	25.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	0.071	0.070	< 0.055 UB	< 0.051 UB	< 0.10 UB	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.2 J	< 5.0 U	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		6/3/2013	6/3/2013	6/19/2013	6/19/2013	7/1/2013	7/1/2013	7/15/2013	7/16/2013	7/17/2013	7/18/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft
Sample ID		WS-012(1.5-2.0)060313	WS-012(5.0-5.5)060313	WS-012(1.5-2.0)061913	WS-012(5.0-5.5)061913	WS-012(1.5-2.0)070113	WS-012(5.0-5.5)070113	WS-012(1.5-2.0)071513	WS-012(1.5-2.0)071613	WS-012(1.5-2.0)071713	WS-012(1.5-2.0)071813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013	7/25/2013	7/25/2013	7/26/2013	7/26/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)071913	WS-012(1.5-2.0)072013	WS-012(1.5-2.0)072113	WS-012(1.5-2.0)072213	WS-012(1.5-2.0)072313	WS-012(5.0-5.5)072313	WS-012(1.5-2.0)072513	WS-012(5.0-5.5)072513	WS-012(1.5-2.0)072613	WS-012(5.0-5.5)072613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	91	87	84	81	82	82	79	104	79	79
Dissolved Oxygen	mg/l	3.53	4.36	3.11	4.76	2.95	2.55	5.35	4.2	4.93	4.73
pH	SU	7.18	7.18	7.18	7.05	7.04	7	7.04	7.01	6.83	7.26
Temperature	deg C	29.49	29.82	29.5	29.35	28.63	28.53	27.76	27.68	27.79	27.78
Turbidity	NTU	18.2	20	19.9	21	19.5	19.5	15.3	15.3	18.3	18.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0081 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0105 UB	< 0.0119 UB	0.0131	< 0.0139 UB	0.0185	0.0190	< 0.0188 UB	< 0.0188 UB	0.0156	0.0153
Barium - Total	mg/L	0.0341	0.0274	0.0395	0.0473	0.0512	0.0564	0.0428	0.0437	0.0377	0.0406
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.89	5.90 J	6.20 J	5.76	5.72	5.75	5.96	5.97	5.98	5.87
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0039 J	< 0.0150 UB	0.0024 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.69	2.78 J	2.84 J	2.68 J	2.65	2.65	2.76	2.77	2.74	2.70
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0023 J	0.0037 J	< 0.0100 UB	0.0018 J	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0032 J	0.0022 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.8	26.2	27.2	25.4	25.2	25.3	26.2	26.3	26.2	25.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	3.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013	7/25/2013	7/25/2013	7/26/2013	7/26/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)071913	WS-012(1.5-2.0)072013	WS-012(1.5-2.0)072113	WS-012(1.5-2.0)072213	WS-012(1.5-2.0)072313	WS-012(5.0-5.5)072313	WS-012(1.5-2.0)072513	WS-012(5.0-5.5)072513	WS-012(1.5-2.0)072613	WS-012(5.0-5.5)072613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		7/27/2013	7/27/2013	7/28/2013	7/28/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013	7/31/2013	7/31/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)072713	WS-012(5.0-5.5)072713	WS-012(1.5-2.0)072813	WS-012(5.0-5.5)072813	WS-012(1.5-2.0)072913	WS-012(5.0-5.5)072913	WS-012(1.5-2.0)073013	WS-012(5.0-5.5)073013	WS-012(1.5-2.0)073113	WS-012(5.0-5.5)073113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	75	76	78	76	79	77	77	77	78
Dissolved Oxygen	mg/l	4.43	4.17	7.18	6.82	6.67	4.36	6.27	5.34	4.34	2.74
pH	SU	7.22	7.19	7.83	7.06	7.7	7.37	7.65	7.59	7.28	7.08
Temperature	deg C	26.2	26.12	27.18	26.64	27.48	27.48	28.02	27.86	27.76	27.56
Turbidity	NTU	16.4	16.4	12.7	12.7	17.6	17.6	17.6	17.6	23.4	23.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0166	0.0170	< 0.0132 UB	< 0.0152 UB	< 0.0118 UB	< 0.0127 UB	< 0.0117 UB	< 0.0123 UB	< 0.0157 UB	< 0.0171 UB
Barium - Total	mg/L	0.0333	0.0329	< 0.0252 UB	0.0357	< 0.0303 UB	< 0.0306 UB	< 0.0262 UB	< 0.0274 UB	0.0330	0.0368
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.79	5.59	5.65 J	5.56 J	5.75	5.61	5.70	5.71	5.70	5.73
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.67	2.60	2.62 J	2.57 J	2.67	2.61	2.68 J	2.68 J	2.64	2.65
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0020 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0020 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0021 J	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0022 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.5	24.6	24.9	24.5	25.4	24.7	25.3	25.3	25.1	25.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Chrysene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Fluorene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 UB	< 0.053 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		7/27/2013	7/27/2013	7/28/2013	7/28/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013	7/31/2013	7/31/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)072713	WS-012(5.0-5.5)072713	WS-012(1.5-2.0)072813	WS-012(5.0-5.5)072813	WS-012(1.5-2.0)072913	WS-012(5.0-5.5)072913	WS-012(1.5-2.0)073013	WS-012(5.0-5.5)073013	WS-012(1.5-2.0)073113	WS-012(5.0-5.5)073113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/1/2013	8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013	8/5/2013	8/5/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)080113	WS-012(5.0-5.5)080113	WS-012(1.5-2.0)080213	WS-012(5.0-5.5)080213	WS-012(1.5-2.0)080313	WS-012(5.0-5.5)080313	WS-012(1.5-2.0)080413	WS-012(5.0-5.5)080413	WS-012(1.5-2.0)080513	WS-012(5.0-5.5)080513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	78	80	80	81	82	80	80	78	79
Dissolved Oxygen	mg/l	4.14	3.41	7.65	6.25	5.35	3.34	5.03	3.58	3.81	3.62
pH	SU	7.28	7.18	8.56	8.33	7.41	7.19	7.46	7.22	7.19	7.15
Temperature	deg C	27.65	27.61	29.08	28.89	29.32	28.58	28.72	28.48	28.75	28.74
Turbidity	NTU	16	16	13.9	13.9	19.6	19.6	17.6	17.6	21.5	21.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	0.0084 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0134 UB	< 0.0142 UB	0.0077	0.0118	< 0.0147 UB	< 0.0128 UB	0.0096	0.0105	0.0106	0.0100
Barium - Total	mg/L	0.0281	0.0488	0.0217	0.0376	0.0319	0.0361	0.0317	0.0356	0.0328	0.0315
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.67	5.86	5.72	5.85	5.98	5.81	5.75	5.85	5.73	5.71
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.61	2.70	2.63	2.68	2.80	2.72	2.67	2.73	2.65	2.63
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0021 J	0.0017 J	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0021 J	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.9	25.8	25.1	25.6	26.5	25.7	25.4	25.8	25.2	25.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	2.1 J	2.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/1/2013	8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013	8/5/2013	8/5/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)080113	WS-012(5.0-5.5)080113	WS-012(1.5-2.0)080213	WS-012(5.0-5.5)080213	WS-012(1.5-2.0)080313	WS-012(5.0-5.5)080313	WS-012(1.5-2.0)080413	WS-012(5.0-5.5)080413	WS-012(1.5-2.0)080513	WS-012(5.0-5.5)080513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/6/2013	8/6/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013	8/9/2013	8/9/2013	8/10/2013	8/10/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)080613	WS-012(5.0-5.5)080613	WS-012(1.5-2.0)080713	WS-012(5.0-5.5)080713	WS-012(1.5-2.0)080813	WS-012(5.0-5.5)080813	WS-012(1.5-2.0)080913	WS-012(5.0-5.5)080913	WS-012(1.5-2.0)081013	WS-012(5.0-5.5)081013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	79	80	83	86	85	86	86	78	85	85
Dissolved Oxygen	mg/l	5.35	4.22	6.09	0.76	5.38	4.76	3.59	3.29	4.42	3.94
pH	SU	7.42	7.29	7.56	7.14	7.43	7.42	7.16	7.14	7.31	7.28
Temperature	deg C	29.12	28.87	30.38	28.98	30.43	30.42	29.92	29.92	29.98	29.99
Turbidity	NTU	13.9	13.9	13.4	13.4	15.9	15.9	18.1	18.1	18.9	18.9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0082 J	0.0087 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0079	0.0093	0.0082	0.0202	0.0103	0.0121	0.0095	0.010	0.0131	0.0130
Barium - Total	mg/L	0.0197	0.0255	0.0189	0.0620	0.0249	0.0266	0.0434	0.0465	0.0385	0.0407
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.80	5.69	5.58	5.74	6.02	5.99	6.08	6.07	6.13	6.11
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.68	2.60	2.59	2.62	2.74	2.73	2.76	2.75	2.78	2.78
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0017 J	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.5	24.9	24.6	25.1	26.3	26.2	26.6	26.5	26.8	26.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Chrysene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Fluorene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.057 U	< 0.051 U	< 0.053 U	< 0.054 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/6/2013	8/6/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013	8/9/2013	8/9/2013	8/10/2013	8/10/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)080613	WS-012(5.0-5.5)080613	WS-012(1.5-2.0)080713	WS-012(5.0-5.5)080713	WS-012(1.5-2.0)080813	WS-012(5.0-5.5)080813	WS-012(1.5-2.0)080913	WS-012(5.0-5.5)080913	WS-012(1.5-2.0)081013	WS-012(5.0-5.5)081013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/11/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/15/2013	8/15/2013	8/16/2013	8/16/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)081113	WS-012(5.0-5.5)081113	WS-012(1.5-2.0)081213	WS-012(5.0-5.5)081213	WS-012(1.5-2.0)081413	WS-012(5.5-6.0)081413	WS-012(1.5-2.0)081513	WS-012(5.0-5.5)081513	WS-012(1.5-2.0)081613	WS-012(5.0-5.5)081613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	83	83	84	85	83	83	79	79	78	78
Dissolved Oxygen	mg/l	4.55	3.91	5.27	4.79	3.91	3.5	4.9	4.38	7.06	6.32
pH	SU	7.21	7.21	7.4	7.4	7.14	7.09	7.22	7.13	7.9	7.94
Temperature	deg C	29.56	29.53	29.41	29.44	27.61	27.59	26.41	26.44	26.52	26.49
Turbidity	NTU	20.5	20.5	16.6	16.6	25.4	25.4	23.2	23.2	15.1	15.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0122	0.0118	0.0124	0.0107	0.0136	0.0154	0.0142	0.0154	< 0.0119 UB	< 0.0123 UB
Barium - Total	mg/L	0.0351	0.0415	0.0315	0.0294	0.0486	0.0477	0.0455	0.0437	0.0328	0.0335
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.20	6.06	6.07	5.99	6.26	6.09	5.93	5.86	5.82	5.79
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J	0.0052 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.83	2.78	2.75	2.71	2.86	2.79	2.72	2.69	2.64	2.62
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0027 J	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.1	26.6	26.5	26.1	27.4	26.7	26.0	25.7	25.4	25.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/11/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/15/2013	8/15/2013	8/16/2013	8/16/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)081113	WS-012(5.0-5.5)081113	WS-012(1.5-2.0)081213	WS-012(5.0-5.5)081213	WS-012(1.5-2.0)081413	WS-012(5.5-6.0)081413	WS-012(1.5-2.0)081513	WS-012(5.0-5.5)081513	WS-012(1.5-2.0)081613	WS-012(5.0-5.5)081613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/17/2013	8/17/2013	8/18/2013	8/18/2013	8/19/2013	8/19/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)081713	WS-012(5.0-5.5)081713	WS-012(1.5-2.0)081813	WS-012(5.0-5.5)081813	WS-012(1.5-2.0)081913	WS-012(5.0-5.5)081913	WS-012(1.5-2.0)082013	WS-012(5.0-5.5)082013	WS-012(1.5-2.0)082113	WS-012(5.0-5.5)082113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	77	75	75	76	77	79	78	79	78
Dissolved Oxygen	mg/l	4.92	4.36	5.28	4.76	5.18	4.9	8.4	2.22	7.93	0.81
pH	SU	7.16	7.07	7.2	7.18	6.6	7.15	8.7	8.28	8.46	8.27
Temperature	deg C	25.22	25.04	25.45	25.41	25.93	25.91	27.7	26.1	28.75	26.27
Turbidity	NTU	16.9	17.7	16.8	16.7	16.1	16.6	16.3	22.9	17.9	17.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0068 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0208	0.0176	0.0158	0.0161	< 0.0142 UB	< 0.0147 UB	0.0143	0.0172	< 0.0137 UB	0.0218
Barium - Total	mg/L	0.0408	0.0440	0.0371	0.0388	0.0311	0.0320	< 0.0239 UB	0.0409	< 0.0257 UB	0.0510
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.79	5.89	6.06	5.96	5.98	6.05	5.48	5.71	5.55	5.99
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.67	2.73	2.79	2.74	2.79	2.81	2.59	2.71	2.63	2.79
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.5	26.0	26.6	26.2	26.4	26.7	24.3	25.4	24.7	26.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Anthracene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.034 J
Benzo(a)Pyrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.030 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.065
Benzo(g,h,i)Perylene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.020 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.030 J
Chrysene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.045 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.036 J
Fluorene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.030 J
Naphthalene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U
Pyrene - Total	ug/l	< 0.057 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.054 U	0.058
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/17/2013	8/17/2013	8/18/2013	8/18/2013	8/19/2013	8/19/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)081713	WS-012(5.0-5.5)081713	WS-012(1.5-2.0)081813	WS-012(5.0-5.5)081813	WS-012(1.5-2.0)081913	WS-012(5.0-5.5)081913	WS-012(1.5-2.0)082013	WS-012(5.0-5.5)082013	WS-012(1.5-2.0)082113	WS-012(5.0-5.5)082113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.6	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/22/2013	8/22/2013	8/23/2013	8/23/2013	8/24/2013	8/24/2013	8/25/2013	8/25/2013	8/26/2013	8/26/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)082213	WS-012(5.0-5.5)082213	WS-012(1.5-2.0)082313	WS-012(5.0-5.5)082313	WS-012(1.5-2.0)082413	WS-012(5.0-5.5)082413	WS-012(1.5-2.0)082513	WS-012(5.0-5.5)082513	WS-012(1.5-2.0)082613	WS-012(5.0-5.5)082613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	80	83	80	81	96	97	101	105	96	98
Dissolved Oxygen	mg/l	5.49	1.26	7.15	1.01	5.43	2.8	5.91	3.31	6.59	4.65
pH	SU	8.37	8.05	8.22	7.77	7.23	7.14	NA	NA	NA	NA
Temperature	deg C	29.16	26.54	29.16	26.81	29.06	28.53	29.18	28.62	29.65	29.05
Turbidity	NTU	12.7	14.6	13.1	13.7	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0083 J	0.0075 J	< 0.0200 U	0.0097 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0076 J
Barium - Dissolved	mg/l	0.0092	0.0203	0.0110	0.0162	0.0104	0.0128	0.0081	0.0084	0.0075	0.0112
Barium - Total	mg/L	0.0230	0.0532	0.0235	0.0383	0.0235	0.0317	0.0196	0.0202	0.0215	0.0466
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.82	6.19	5.91	6.36	5.83	6.03	6.02	5.96	6.20	6.49
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0019 J	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.73	2.83	2.74	2.87	2.73	2.77	2.78	2.76	2.79	2.87
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.8	27.1	26.1	27.7	25.8	26.5	26.5	26.3	27.0	28.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 UJ	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J	< 5.0 U	< 5.0 U	2.1 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/22/2013	8/22/2013	8/23/2013	8/23/2013	8/24/2013	8/24/2013	8/25/2013	8/25/2013	8/26/2013	8/26/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)082213	WS-012(5.0-5.5)082213	WS-012(1.5-2.0)082313	WS-012(5.0-5.5)082313	WS-012(1.5-2.0)082413	WS-012(5.0-5.5)082413	WS-012(1.5-2.0)082513	WS-012(5.0-5.5)082513	WS-012(1.5-2.0)082613	WS-012(5.0-5.5)082613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/30/2013	8/30/2013	8/31/2013	8/31/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)082713	WS-012(5.0-5.5)082713	WS-012(1.5-2.0)082813	WS-012(5.0-5.5)082813	WS-012(1.5-2.0)082913	WS-012(5.0-5.5)082913	WS-012(1.5-2.0)083013	WS-012(5.0-5.5)083013	WS-012(1.5-2.0)083113	WS-012(5.0-5.5)083113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	97	99	68	69	70	71	70	72	71	70
Dissolved Oxygen	mg/l	4.32	3.48	3.27	1.88	3.75	0.51	4.94	1.33	4.93	1.12
pH	SU	NA	NA	7.19	7.06	7.35	6.87	7.99	7.72	7.85	7.55
Temperature	deg C	29.73	28.83	29.44	29.22	29.74	28.83	30.06	29.41	29.54	29.03
Turbidity	NTU	NA	NA	9.8	9.6	7.5	6.8	5.3	5.6	6.1	6.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0085 J	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0099 J	0.0097 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0075	0.0107	0.0145	0.0154	0.0174	0.0202	0.0153	0.0147	0.0165	0.0658
Barium - Total	mg/L	0.0184	0.0222	0.0287	0.0417	0.0306	0.0453	0.0269	0.0272	0.0308	0.214
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.25	6.33	6.59	6.65	6.34	6.63	6.59	6.55	6.78	6.98
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.85	2.88	2.95	2.94	2.84	2.94	2.97	2.93	3.03	3.04
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.3	27.7	28.6	28.7	27.5	28.7	28.7	28.4	29.4	30.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	1.6 J	1.6 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/30/2013	8/30/2013	8/31/2013	8/31/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)082713	WS-012(5.0-5.5)082713	WS-012(1.5-2.0)082813	WS-012(5.0-5.5)082813	WS-012(1.5-2.0)082913	WS-012(5.0-5.5)082913	WS-012(1.5-2.0)083013	WS-012(5.0-5.5)083013	WS-012(1.5-2.0)083113	WS-012(5.0-5.5)083113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/1/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/3/2013	9/4/2013	9/4/2013	9/5/2013	9/5/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)090113	WS-012(5.0-5.5)090113	WS-012(1.5-2.0)090213	WS-012(5.0-5.5)090213	WS-012(1.5-2.0)090313	WS-012(5.0-5.5)090313	WS-012(1.5-2.0)090413	WS-012(5.0-5.5)090413	WS-012(1.5-2.0)090513	WS-012(5.0-5.5)090513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	72	72	73	73	73	74	74	73	73	73
Dissolved Oxygen	mg/l	2.69	2.2	2.05	1.81	2.57	2.22	2.96	2.99	3.45	3.7
pH	SU	7.87	6.97	8.15	7.7	8.09	7.25	8.17	7.26	7.99	7.45
Temperature	deg C	29.51	29.56	29.48	29.56	29.11	29.13	28.37	28.79	28.95	28.88
Turbidity	NTU	7.1	6.8	7.1	7.1	8.8	8.3	10.1	10.7	8.8	8.9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	0.0084 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0241	0.0245	0.0132	0.0154	0.0077	0.0061	0.0102	0.0168	0.0133	0.0183
Barium - Total	mg/L	0.0610	0.131	0.0478	0.0481	0.0688	0.0882	0.0768	0.0815	0.0661	0.0713
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 UJ	< 0.0050 UJ	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.72	6.69	6.74	6.69	6.94	7.09	6.98	6.98	7.09	7.19
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0020 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.97	2.95	3.06	3.04	3.08	3.16	3.07	3.10	3.14	3.19
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0024 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.0	28.9	29.4	29.2	30.0	30.7	30.1	30.2	30.6	31.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.4 J	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	2.3 J	1.7 J	2.9 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/1/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/3/2013	9/4/2013	9/4/2013	9/5/2013	9/5/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)090113	WS-012(5.0-5.5)090113	WS-012(1.5-2.0)090213	WS-012(5.0-5.5)090213	WS-012(1.5-2.0)090313	WS-012(5.0-5.5)090313	WS-012(1.5-2.0)090413	WS-012(5.0-5.5)090413	WS-012(1.5-2.0)090513	WS-012(5.0-5.5)090513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/6/2013	9/6/2013	9/7/2013	9/7/2013	9/8/2013	9/8/2013	9/9/2013	9/9/2013	9/10/2013	9/10/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)090613	WS-012(5.0-5.5)090613	WS-012(1.5-2.0)090713	WS-012(5.0-5.5)090713	WS-012(1.5-2.0)090813	WS-012(5.0-5.5)090813	WS-012(1.5-2.0)090913	WS-012(5.0-5.5)090913	WS-012(1.5-2.0)091013	WS-012(5.0-5.5)091013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	74	74	73	76	74	76	74	74
Dissolved Oxygen	mg/l	4.92	3.2	4.54	3.92	5.15	0.77	5.23	0.81	2.59	2.48
pH	SU	8.35	7.93	7.13	7.19	8.17	7.16	7.9	7.51	6.88	6.89
Temperature	deg C	28.53	28.4	28.97	28.94	29.22	28.76	29.45	28.81	28.88	28.91
Turbidity	NTU	11.2	9.3	9.2	8	5.8	5.2	6.1	8.7	7.4	6.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	0.0086 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0077 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0154	0.0139	0.0183	0.0254	0.0147	0.0177	0.0155	0.194	0.0216	0.0200
Barium - Total	mg/L	0.0491	0.0511	0.0407	0.0474	0.0303	0.105	0.0298	0.378	0.0750	0.0828
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.94	6.80	6.96	6.73	6.87	7.14	7.06	7.60	7.03	6.97
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0021 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.07	3.01	3.09	3.01	3.07	3.16	3.16	3.29	3.10	3.08
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.0	29.4	30.1	29.2	29.8	30.8	30.6	32.5	30.3	30.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.056 U	< 0.059 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	3.5 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	2.0 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/6/2013	9/6/2013	9/7/2013	9/7/2013	9/8/2013	9/8/2013	9/9/2013	9/9/2013	9/10/2013	9/10/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)090613	WS-012(5.0-5.5)090613	WS-012(1.5-2.0)090713	WS-012(5.0-5.5)090713	WS-012(1.5-2.0)090813	WS-012(5.0-5.5)090813	WS-012(1.5-2.0)090913	WS-012(5.0-5.5)090913	WS-012(1.5-2.0)091013	WS-012(5.0-5.5)091013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/11/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/13/2013	9/14/2013	9/14/2013	9/15/2013	9/15/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)091113	WS-012(5.0-5.5)091113	WS-012(1.5-2.0)091213	WS-012(5.0-5.5)091213	WS-012(1.5-2.0)091313	WS-012(5.0-5.5)091313	WS-012(1.5-2.0)091413	WS-012(5.0-5.5)091413	WS-012(1.5-2.0)091513	WS-012(5.0-5.5)091513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	75	75	76	76	75	75	74	75
Dissolved Oxygen	mg/l	2.11	2.81	2.4	2.13	2.67	1.97	2.92	2.66	3.08	2.99
pH	SU	6.85	6.81	7.59	7.35	7.92	7.49	7.81	7.6	7.86	7.55
Temperature	deg C	28.68	28.72	28.57	28.78	28.41	28.66	26.86	26.8	26.82	25.99
Turbidity	NTU	7.2	6.9	6.2	6.2	7.8	5.4	9.6	8.1	10.2	8.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	0.0079 J	< 0.0200 U	0.0074 J	< 0.0200 U	< 0.0200 U	0.0091 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0086 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0097 J	0.0091 J
Barium - Dissolved	mg/l	< 0.0196 UB	< 0.0253 UB	0.0148	0.0125	0.0077	0.0112	0.0122	0.0147	0.0187	0.0207
Barium - Total	mg/L	0.0400	0.0875	0.0813	0.0813	0.0653	0.0760	0.0802	0.0822	0.0755	0.0785
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.12	7.17	7.37	7.26	7.54	7.30	7.32	7.01	7.04	7.03
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.14	3.14	3.21	3.15	3.37	3.24	3.30	3.18	3.21	3.22
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.7	30.8	31.6	31.1	32.7	31.6	31.9	30.6	30.8	30.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 UJ	< 0.054 UJ	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.055 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 U	< 5.0 U	2.1 J	< 5.0 U	< 5.0 UB	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/11/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/13/2013	9/14/2013	9/14/2013	9/15/2013	9/15/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)091113	WS-012(5.0-5.5)091113	WS-012(1.5-2.0)091213	WS-012(5.0-5.5)091213	WS-012(1.5-2.0)091313	WS-012(5.0-5.5)091313	WS-012(1.5-2.0)091413	WS-012(5.0-5.5)091413	WS-012(1.5-2.0)091513	WS-012(5.0-5.5)091513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/16/2013	9/16/2013	9/17/2013	9/17/2013	9/18/2013	9/18/2013	9/19/2013	9/19/2013	9/20/2013	9/20/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)091613	WS-012(5.0-5.5)091613	WS-012(1.5-2.0)091713	WS-012(5.0-5.5)091713	WS-012(1.5-2.0)091813	WS-012(5.0-5.5)091813	WS-012(1.5-2.0)091913	WS-012(5.0-5.5)091913	WS-012(1.5-2.0)092013	WS-012(5.0-5.5)092013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	75	73	73	74	74	74	75	75	75
Dissolved Oxygen	mg/l	5.23	1.39	3.68	3.44	5.49	4.89	3.83	2.67	2.74	2.79
pH	SU	8.35	7.45	8	7.83	8.99	9.04	7.83	7.7	8.05	7.55
Temperature	deg C	25.81	25.9	25.96	25.92	27.43	27.46	26.86	26.67	26.84	27.03
Turbidity	NTU	10.4	7.5	9.4	9.7	8.3	6.7	7.5	8.6	9	7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0072 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0202	0.0253	0.0193	0.0204	0.0165	0.0199	0.0220	0.0240	< 0.0168 UB	< 0.0186 UB
Barium - Total	mg/L	0.0468	0.0826	0.0619	0.0638	0.0327	0.0359	0.0457	0.0734	0.0515	0.0540
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.98	7.11	7.29	7.32	6.71	6.93	6.90	7.19	7.12	6.76
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0019 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.15	3.21	3.30	3.31	3.02	3.11	3.08	3.20	3.23	3.05
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.4	31.0	31.8	31.9	29.2	30.1	29.9	31.1	31.1	29.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	0.016 J	< 0.055 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.053 U	0.013 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	3.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	1.5 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/16/2013	9/16/2013	9/17/2013	9/17/2013	9/18/2013	9/18/2013	9/19/2013	9/19/2013	9/20/2013	9/20/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)091613	WS-012(5.0-5.5)091613	WS-012(1.5-2.0)091713	WS-012(5.0-5.5)091713	WS-012(1.5-2.0)091813	WS-012(5.0-5.5)091813	WS-012(1.5-2.0)091913	WS-012(5.0-5.5)091913	WS-012(1.5-2.0)092013	WS-012(5.0-5.5)092013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/21/2013	9/21/2013	9/22/2013	9/22/2013	9/23/2013	9/23/2013	9/24/2013	9/24/2013	9/25/2013	9/25/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)092113	WS-012(5.0-5.5)092113	WS-012(1.5-2.0)092213	WS-012(5.0-5.5)092213	WS-012(1.5-2.0)092313	WS-012(5.0-5.5)092313	WS-012(1.5-2.0)092413	WS-012(5.0-5.5)092413	WS-012(1.5-2.0)092513	WS-012(5.0-5.5)092513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	75	73	73	73	73	72	73	72	72
Dissolved Oxygen	mg/l	2.4	2.33	4.11	4.04	4.61	4.05	5.16	5.02	3.46	3.05
pH	SU	7.92	7.68	7.71	7.8	8.27	8.11	8.5	8.37	7.75	7.45
Temperature	deg C	25.18	24.98	24.16	24.07	23.91	23.86	24.13	24.11	24.05	24.06
Turbidity	NTU	13.4	8.5	8.7	9.2	10.7	10.2	13	13.4	11.5	9.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0072 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0249	0.0199	0.0200	0.0198	0.0205	0.0205	0.0193	0.0195	0.0212	0.0386
Barium - Total	mg/L	0.0568	0.0549	0.0520	0.0510	0.0555	0.0568	0.0458	0.0468	0.0575	0.0555
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.01	7.01	6.97	6.86	6.85	6.89	6.77	6.71	6.82	6.84
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.23	3.25	3.17	3.13	3.16	3.16	3.10	3.06	3.10	3.12
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.8	30.9	30.5	30.0	30.1	30.2	29.7	29.4	29.8	29.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.052 U	0.030 J	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.9 J	2.2 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.2 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/21/2013	9/21/2013	9/22/2013	9/22/2013	9/23/2013	9/23/2013	9/24/2013	9/24/2013	9/25/2013	9/25/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)092113	WS-012(5.0-5.5)092113	WS-012(1.5-2.0)092213	WS-012(5.0-5.5)092213	WS-012(1.5-2.0)092313	WS-012(5.0-5.5)092313	WS-012(1.5-2.0)092413	WS-012(5.0-5.5)092413	WS-012(1.5-2.0)092513	WS-012(5.0-5.5)092513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/26/2013	9/26/2013	9/27/2013	9/27/2013	9/28/2013	9/28/2013	9/29/2013	9/29/2013	9/30/2013	9/30/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)092613	WS-012(5.0-5.5)092613	WS-012(1.5-2.0)092713	WS-012(5.0-5.5)092713	WS-012(1.5-2.0)092813	WS-012(5.0-5.5)092813	WS-012(1.5-2.0)092913	WS-012(5.0-5.5)092913	WS-012(1.5-2.0)093013	WS-012(5.0-5.5)093013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	72	74	73	73	83	74	73	73
Dissolved Oxygen	mg/l	3.66	3.76	5.15	1.41	4.31	3.63	3.36	1.83	2.32	2.04
pH	SU	8.23	8.06	8.51	7.84	8.07	7.87	6.83	6.74	7.42	7.35
Temperature	deg C	24.36	24.39	24.86	24.46	25	24.86	25.71	25.5	25.05	24.98
Turbidity	NTU	8.8	8.7	8.7	10.4	8.4	9.7	9.4	9.1	8.6	8.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0084 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0198	0.0208	0.0182	0.0198	0.0169	0.0178	0.0166	0.0173	< 0.0145 UB	< 0.0156 UB
Barium - Total	mg/L	0.0468	0.0518	0.0301	0.0518	0.0352	0.0429	0.0462	0.0665	0.0436	0.0475
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.76	6.88	6.41	6.59	6.65	6.92	6.68	6.71	6.81	6.84
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0023 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.13	3.19	2.98	3.07	3.07	3.20	3.11	3.11	3.12	3.15
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0024 J	0.0019 J	< 0.0100 U	0.0018 J	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.8	30.3	28.3	29.1	29.3	30.5	29.5	29.6	29.9	30.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	0.054	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	0.013 J	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	0.012 J	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	0.012 J	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	0.011 J	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	0.036 J	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		9/26/2013	9/26/2013	9/27/2013	9/27/2013	9/28/2013	9/28/2013	9/29/2013	9/29/2013	9/30/2013	9/30/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)092613	WS-012(5.0-5.5)092613	WS-012(1.5-2.0)092713	WS-012(5.0-5.5)092713	WS-012(1.5-2.0)092813	WS-012(5.0-5.5)092813	WS-012(1.5-2.0)092913	WS-012(5.0-5.5)092913	WS-012(1.5-2.0)093013	WS-012(5.0-5.5)093013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/1/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/3/2013	10/4/2013	10/4/2013	10/5/2013	10/5/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)100113	WS-012(5.0-5.5)100113	WS-012(1.5-2.0)100213	WS-012(5.0-5.5)100213	WS-012(1.5-2.0)100313	WS-012(5.0-5.5)100313	WS-012(1.5-2.0)100413	WS-012(5.0-5.5)100413	WS-012(1.5-2.0)100513	WS-012(5.0-5.5)100513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	72	73	74	74	72	73	72	72
Dissolved Oxygen	mg/l	2.36	2.02	3.03	3.02	3.07	2.71	3.21	2.41	3.14	3.01
pH	SU	7.49	7.36	7.54	7.48	7.7	7.64	7.5	7.33	7.68	7.44
Temperature	deg C	25.02	25.01	25.25	25.2	25.01	24.98	25.46	25.04	25.35	24.93
Turbidity	NTU	6.7	7.7	8.3	8.3	8.1	8.1	10.3	8.3	9.7	9.3
Metals											
Arsenic - Dissolved	mg/l	0.0071 J	0.0072 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0175	0.0173	0.0179	0.0178	0.0427	0.0196	0.0182	0.0185	0.0171	0.0174
Barium - Total	mg/L	0.0483	0.0473	0.0371	0.0428	0.0484	0.0527	0.0394	0.0475	0.0343	0.0351
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.67	6.62	6.61	6.67	6.52	6.67	6.57	6.57	6.35	6.37
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.04	3.02	3.10	3.12	3.06	3.12	3.08	3.08	3.00	2.99
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.2	29.0	29.3	29.5	28.9	29.5	29.1	29.1	28.2	28.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.060 U	0.012 J	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Anthracene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Chrysene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Fluorene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.060 U	0.036 J	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
Pyrene - Total	ug/l	< 0.060 U	< 0.059 U	< 0.054 U	< 0.058 U	< 0.056 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.056 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	1.8 J	< 5.0 U	2.3 J	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/1/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/3/2013	10/4/2013	10/4/2013	10/5/2013	10/5/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)100113	WS-012(5.0-5.5)100113	WS-012(1.5-2.0)100213	WS-012(5.0-5.5)100213	WS-012(1.5-2.0)100313	WS-012(5.0-5.5)100313	WS-012(1.5-2.0)100413	WS-012(5.0-5.5)100413	WS-012(1.5-2.0)100513	WS-012(5.0-5.5)100513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/6/2013	10/6/2013	10/7/2013	10/7/2013	10/8/2013	10/8/2013	10/9/2013	10/9/2013	10/10/2013	10/10/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)100613	WS-012(5.0-5.5)100613	WS-012(1.5-2.0)100713	WS-012(5.0-5.5)100713	WS-012(1.5-2.0)100813	WS-012(5.0-5.5)100813	WS-012(1.5-2.0)100913	WS-012(5.0-5.5)100913	WS-012(1.5-2.0)101013	WS-012(5.0-5.5)101013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	NA	NA	NA	NA	NA	NA	81	81	82	81
Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	8.57	8.87	6.07	5.35
pH	SU	NA	NA	NA	NA	NA	NA	6.91	6.77	7.38	7.18
Temperature	deg C	NA	NA	NA	NA	NA	NA	20.62	20.62	21.11	21.05
Turbidity	NTU	NA	NA	NA	NA	NA	NA	18.1	18.9	20.3	19.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ
Barium - Dissolved	mg/l	0.0560	< 0.0183 UB	0.0185	0.0184	0.0187	0.0188	0.0186	0.0186	0.0168	0.0185
Barium - Total	mg/L	0.0424	0.0431	0.0398	0.0392	0.0418	0.0414	0.0378	0.0404	0.0316	0.0391
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.22	6.29	5.84	5.73	5.99	5.89	5.71	5.95	5.59	5.59
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0091 J	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.93	2.96	2.78	2.73	2.85	2.79	2.75	2.86	2.70	2.72
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.6	27.9	26.0	25.6	26.7	26.2	25.6	26.6	25.1	25.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	0.041 J	0.033 J
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.055 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.5 J	1.7 J	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/6/2013	10/6/2013	10/7/2013	10/7/2013	10/8/2013	10/8/2013	10/9/2013	10/9/2013	10/10/2013	10/10/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)100613	WS-012(5.0-5.5)100613	WS-012(1.5-2.0)100713	WS-012(5.0-5.5)100713	WS-012(1.5-2.0)100813	WS-012(5.0-5.5)100813	WS-012(1.5-2.0)100913	WS-012(5.0-5.5)100913	WS-012(1.5-2.0)101013	WS-012(5.0-5.5)101013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/11/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/13/2013	10/14/2013	10/14/2013	10/15/2013	10/15/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)101113	WS-012(5.0-5.5)101113	WS-012(1.5-2.0)101213	WS-012(5.0-5.5)101213	WS-012(1.5-2.0)101313	WS-012(5.0-5.5)101313	WS-012(1.5-2.0)101413	WS-012(5.0-5.5)101413	WS-012(1.5-2.0)101513	WS-012(5.0-5.5)101513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	81	81	80	80	82	82	80	79	80	80
Dissolved Oxygen	mg/l	8.14	8.49	7.87	4.3	4.75	3.88	4.03	3.69	3.57	4.97
pH	SU	6.9	6.55	6.88	6.6	6.68	6.74	6.94	6.44	6.59	6.53
Temperature	deg C	21.41	21.41	21.61	21.69	21.83	21.95	21.14	21.17	21.32	21.35
Turbidity	NTU	19.5	18.6	17.6	20.3	15.7	15.7	16.8	16.3	17.2	18.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0173	0.0175	0.0173	0.0175	0.0173	0.0183	0.0223	0.0164	0.0184	0.0185
Barium - Total	mg/L	0.0368	0.0374	0.0330	0.0342	0.0320	0.0389	0.0312	0.0301	0.0312	0.0303
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.58	5.70	5.33	5.36	5.15	5.09	5.05	5.22	5.35	5.36
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.68	2.73	2.59	2.60	2.49	2.47	2.48	2.56	2.62	2.65
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	0.0015 J	0.0017 J	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.0	25.5	24.0	24.1	23.1	22.9	22.8	23.6	24.2	24.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Naphthalene - Total	ug/l	0.037 J	0.038 J	< 0.050 U	< 0.056 U	< 0.052 UB	< 0.052 UB	< 0.052 UB	< 0.052 UB	< 0.053 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.050 U	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/11/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/13/2013	10/14/2013	10/14/2013	10/15/2013	10/15/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)101113	WS-012(5.0-5.5)101113	WS-012(1.5-2.0)101213	WS-012(5.0-5.5)101213	WS-012(1.5-2.0)101313	WS-012(5.0-5.5)101313	WS-012(1.5-2.0)101413	WS-012(5.0-5.5)101413	WS-012(1.5-2.0)101513	WS-012(5.0-5.5)101513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/18/2013	10/18/2013	10/19/2013	10/19/2013	10/20/2013	10/20/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)101613	WS-012(5.0-5.5)101613	WS-012(1.5-2.0)101713	WS-012(5.0-5.5)101713	WS-012(1.5-2.0)101813	WS-012(5.0-5.5)101813	WS-012(1.5-2.0)101913	WS-012(5.0-5.5)101913	WS-012(1.5-2.0)102013	WS-012(5.0-5.5)102013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	79	78	79	79	80	79	77	77	77	77
Dissolved Oxygen	mg/l	3.38	2.91	3.97	3.89	2.93	3.39	3.48	3.35	4.73	4.39
pH	SU	6.86	6.56	7.05	6.4	6.95	6.58	6.63	6.51	6.86	6.76
Temperature	deg C	20.46	20.57	19.54	19.56	18.63	18.65	18.31	18.42	17.65	17.37
Turbidity	NTU	16	16.9	17.8	17.1	18.6	19.6	22.4	23.2	24.4	22.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0082 J
Barium - Dissolved	mg/l	0.0179	0.0182	0.0172	0.0177	0.0179	0.0181	0.0163	0.0167	0.0168	0.0167
Barium - Total	mg/L	0.0309	0.0318	0.0326	0.0332	0.0314	0.0320	0.0312	0.0311	0.0287	0.0293
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.00	4.93	5.17	5.13	4.75	4.80	4.82	4.79	4.69	4.86
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.45	2.42	2.47	2.50	2.35	2.38	2.37	2.35	2.35	2.41
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	22.6	22.3	23.1	23.1	21.5	21.8	21.8	21.7	21.4	22.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.055 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	2.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J	2.4 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/18/2013	10/18/2013	10/19/2013	10/19/2013	10/20/2013	10/20/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)101613	WS-012(5.0-5.5)101613	WS-012(1.5-2.0)101713	WS-012(5.0-5.5)101713	WS-012(1.5-2.0)101813	WS-012(5.0-5.5)101813	WS-012(1.5-2.0)101913	WS-012(5.0-5.5)101913	WS-012(1.5-2.0)102013	WS-012(5.0-5.5)102013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/23/2013	10/23/2013	10/24/2013	10/24/2013	10/25/2013	10/25/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)102113	WS-012(5.0-5.5)102113	WS-012(1.5-2.0)102213	WS-012(5.0-5.5)102213	WS-012(1.5-2.0)102313	WS-012(5.0-5.5)102313	WS-012(1.5-2.0)102413	WS-012(5.0-5.5)102413	WS-012(1.5-2.0)102513	WS-012(5.0-5.5)102513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	75	76	76	76	75	75	75	75	75
Dissolved Oxygen	mg/l	5.21	4.65	5.55	4.99	4.46	4.53	4.17	5.01	5.73	5.38
pH	SU	6.82	6.73	6.3	6.29	6.21	6.22	6.19	6.27	6.49	6.45
Temperature	deg C	17.53	17.57	17.28	17.05	16.58	16.66	16.52	16.58	15.47	15.44
Turbidity	NTU	22.9	27.5	21.3	20.9	18.6	17.6	18.1	22.3	19.3	17.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0153	0.0156	0.0175	0.0176	0.0166	0.0209	0.0165	0.0154	0.0162	0.0169
Barium - Total	mg/L	0.0307	0.0311	0.0288	0.0286	0.0249	0.0262	0.0254	0.0265	0.0253	0.0254
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.53	4.63	4.68	4.68	4.31	4.47	4.30	4.44	4.34	4.38
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0051 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.26	2.31	2.35	2.35	2.17	2.25	2.13	2.20	2.18	2.21
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	20.6	21.1	21.4	21.4	19.7	20.4	19.5	20.2	19.8	20.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Chrysene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/23/2013	10/23/2013	10/24/2013	10/24/2013	10/25/2013	10/25/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)102113	WS-012(5.0-5.5)102113	WS-012(1.5-2.0)102213	WS-012(5.0-5.5)102213	WS-012(1.5-2.0)102313	WS-012(5.0-5.5)102313	WS-012(1.5-2.0)102413	WS-012(5.0-5.5)102413	WS-012(1.5-2.0)102513	WS-012(5.0-5.5)102513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/26/2013	10/26/2013	10/27/2013	10/27/2013	10/28/2013	10/28/2013	10/29/2013	10/29/2013	10/30/2013	10/30/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)102613	WS-012(5.0-5.5)102613	WS-012(1.5-2.0)102713	WS-012(5.0-5.5)102713	WS-012(1.5-2.0)102813	WS-012(5.0-5.5)102813	WS-012(1.5-2.0)102913	WS-012(5.0-5.5)102913	WS-012(1.5-2.0)103013	WS-012(5.0-5.5)103013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	75	75	75	75	74	73	73	74	74	74
Dissolved Oxygen	mg/l	5.89	5.71	5.81	5.12	4.79	4.24	4.95	4.4	5.12	4.85
pH	SU	6.65	6.48	6.73	6.38	6.55	6.31	6.65	6.34	6.77	6.44
Temperature	deg C	14.76	14.91	14.61	14.81	15.1	15.13	15.52	15.14	16.92	16.6
Turbidity	NTU	17.7	17.5	14.3	19.3	18.5	17.7	19.4	19	19.3	18.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0155	0.0153	0.0162	0.0164	0.0168	0.0166	0.0168	0.0165	0.0153	0.0155
Barium - Total	mg/L	0.0244	0.0259	0.0251	0.0256	0.0261	0.0258	0.0251	0.0259	0.0236	0.0248
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.44	4.51	4.22	4.38	4.40	4.48	4.18	4.15	4.03	4.13
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0022 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0050 J	0.0048 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.21	2.27	2.11	2.20	2.20	2.22	2.13	2.11	2.04	2.09
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	20.2	20.6	19.2	20.0	20.0	20.3	19.2	19.0	18.4	18.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	0.011 J	0.011 J	0.012 J	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	3.1 J	1.8 J	2.1 J	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 UB	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	0.1 J	0.1 J	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		10/26/2013	10/26/2013	10/27/2013	10/27/2013	10/28/2013	10/28/2013	10/29/2013	10/29/2013	10/30/2013	10/30/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(1.5-2.0)102613	WS-012(5.0-5.5)102613	WS-012(1.5-2.0)102713	WS-012(5.0-5.5)102713	WS-012(1.5-2.0)102813	WS-012(5.0-5.5)102813	WS-012(1.5-2.0)102913	WS-012(5.0-5.5)102913	WS-012(1.5-2.0)103013	WS-012(5.0-5.5)103013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	0.3 J	0.2 J	< 0.5 UB	< 0.5 UB	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	0.2 J	0.2 J	< 0.5 UB	< 0.5 UB	0.3 J	0.1 J	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-013	WS-013	WS-013	WS-013	WS-013	WS-013	WS-014	WS-014
Sample Date		10/31/2013	10/31/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/16/2013	4/16/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-012(1.5-2.0)103113	WS-012(5.0-5.5)103113	WS-013(1.5-2.0)041613	WS-013(4.0-4.5)041613	WS-013(1.5-2.0)042213	WS-013(3.5-4.0)042213	WS-013(1.5-2.0)042413	WS-013(4.0-4.5)042413	WS-014(1.5-2.0)041613	WS-014(4.0-4.5)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	76	45	45	44	44	50	53	51	51
Dissolved Oxygen	mg/l	7.34	6.86	8.6	8.53	8.82	8.58	8.4	8.35	8.34	7.94
pH	SU	6.23	6.19	6.59	6.54	6.84	6.79	6.72	6.76	6.53	6.43
Temperature	deg C	17.17	17.17	20.67	20.52	18.09	17.63	17.64	17.56	19.94	19.66
Turbidity	NTU	21.6	21.4	10.2	10.5	4.4	5	NA	NA	9.6	9.8
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0153	0.0150	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0245	0.0248	0.0173	0.0174	0.0162	0.0165	0.0184	0.0185	0.0168	0.0170
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.14	4.11	2.34	2.36	2.54	2.49	2.57	2.55	2.49	2.55
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0058 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.11	2.10	1.29	1.29	1.40	1.37	1.46	1.45	1.31	1.32
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0016 J	0.0012 J	0.0014 J	< 0.0100 U	0.0018 J	0.0013 J	0.0014 J	0.0018 J	0.0014 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	19.1	18.9	11.1	11.2	12.1	11.9	12.4	12.4	11.6	11.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	0.031 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.4 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-013	WS-013	WS-013	WS-013	WS-013	WS-013	WS-014	WS-014
Sample Date		10/31/2013	10/31/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/16/2013	4/16/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-012(1.5-2.0)103113	WS-012(5.0-5.5)103113	WS-013(1.5-2.0)041613	WS-013(4.0-4.5)041613	WS-013(1.5-2.0)042213	WS-013(3.5-4.0)042213	WS-013(1.5-2.0)042413	WS-013(4.0-4.5)042413	WS-014(1.5-2.0)041613	WS-014(4.0-4.5)041613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/29/2013	4/29/2013	5/6/2013	5/6/2013	5/13/2013	5/13/2013
Depths (ft)		1.5-2 ft	4-4.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-014(1.5-2.0)042213	WS-014(4.0-4.5)042213	WS-014(1.5-2.0)042413	WS-014(4.5-5.0)042413	WS-014(1.5-2.0)042913	WS-014(4.5-5.0)042913	WS-014(1.5-2.0)050613	WS-014(4.0-4.5)050613	WS-014(1.5-2.0)051313	WS-014(4.0-4.5)051313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	48	47	56	56	50	51	64	63	73	71
Dissolved Oxygen	mg/l	9.16	8.94	8.54	8.31	8.82	8.45	8.03	8	9.75	9.28
pH	SU	6.76	6.77	6.84	6.89	6.66	6.68	5.96	6.46	7.08	7.12
Temperature	deg C	18.62	17.85	18.06	17.9	18.2	17.88	16.12	16.12	22.21	21.28
Turbidity	NTU	9.2	9.3	NA	NA	7.4	8	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0164	0.0163	0.0180	0.0183	0.0157	0.0164	0.0202	0.0208	0.0145	0.0150
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	2.80	2.79	3.44	3.44	2.88	2.90	3.21	3.28	3.35	3.38
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0013 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.45	1.44	1.69	1.68	1.51	1.52	1.62	1.67	1.67	1.69
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0018	0.000099 J	0.00052
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0014 J	0.0014 J	0.0018 J	0.0016 J	< 0.0100 U	0.0019 J	< 0.0100 UB	0.0018 J	0.0021 J	0.0018 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	13.0	12.9	15.6	15.5	13.4	13.5	14.7	15.1	15.2	15.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	0.037 J	< 0.051 U	0.064	0.041 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/29/2013	4/29/2013	5/6/2013	5/6/2013	5/13/2013	5/13/2013
Depths (ft)		1.5-2 ft	4-4.5 ft	1.5-2 ft	4-5.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-014(1.5-2.0)042213	WS-014(4.0-4.5)042213	WS-014(1.5-2.0)042413	WS-014(4.5-5.0)042413	WS-014(1.5-2.0)042913	WS-014(4.5-5.0)042913	WS-014(1.5-2.0)050613	WS-014(4.0-4.5)050613	WS-014(1.5-2.0)051313	WS-014(4.0-4.5)051313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		5/20/2013	5/20/2013	5/29/2013	5/29/2013	6/3/2013	6/3/2013	6/19/2013	6/19/2013	7/1/2013	7/1/2013
Depths (ft)		1.5-2 ft	4.5-5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-014(1.5-2.0)052013	WS-014(4.5-5.0)052013	WS-014(1.5-2.0)052913	WS-014(4.5-5.0)052913	WS-014(1.5-2.0)060313	WS-014(5.0-5.5)060313	WS-014(1.5-2.0)061913	WS-014(5.0-5.5)061913	WS-014(1.5-2.0)070113	WS-014(5.0-5.5)070113
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	76	73	73	76	80	112	105	107	105
Dissolved Oxygen	mg/l	8	7.85	7.41	7.25	6.39	6.4	8.48	5.78	8.52	7.82
pH	SU	6.65	6.68	6.69	6.72	6.56	6.11	6.2	6.69	6.94	7
Temperature	deg C	24.75	24.75	25.34	25.22	24.18	24.71	28.98	28.61	27.83	27.75
Turbidity	NTU	NA	NA	8.9	9.4	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0179	0.0178	0.0175	0.0173	0.0180	0.0185	0.0171	0.0163	0.0268	0.0266
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.55	3.56	3.90	3.88	4.02	3.85	4.80	4.69	5.30	5.31
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.73	1.74	1.91	1.90	1.98	1.87	2.19 J	2.16 J	2.47	2.45
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	0.00028	0.00095	0.00059	0.00021	0.00063	0.00065	0.00079	0.00063	< 0.00064 UB	< 0.00091 UB
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0014 J	0.0011 J	0.0014 J	0.0012 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	16.0	16.0	17.6	17.5	18.2	17.3	21.0	20.6	23.4	23.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Naphthalene - Total	ug/l	0.041 J	0.032 J	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	0.033 J	0.036 J
Phenanthrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.050 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		5/20/2013	5/20/2013	5/29/2013	5/29/2013	6/3/2013	6/3/2013	6/19/2013	6/19/2013	7/1/2013	7/1/2013
Depths (ft)		1.5-2 ft	4.5-5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-014(1.5-2.0)052013	WS-014(4.5-5.0)052013	WS-014(1.5-2.0)052913	WS-014(4.5-5.0)052913	WS-014(1.5-2.0)060313	WS-014(5.0-5.5)060313	WS-014(1.5-2.0)061913	WS-014(5.0-5.5)061913	WS-014(1.5-2.0)070113	WS-014(5.0-5.5)070113
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)071513	WS-014(1.5-2.0)071613	WS-014(1.5-2.0)071713	WS-014(1.5-2.0)071813	WS-014(1.5-2.0)071913	WS-014(1.5-2.0)072013	WS-014(1.5-2.0)072113	WS-014(1.5-2.0)072213	WS-014(1.5-2.0)072313	WS-014(5.5-6.0)072313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	86	86	86	82	89	84	80	78	79	80
Dissolved Oxygen	mg/l	4.37	5.21	7.87	9.67	3.77	5.64	3.7	5.7	5.37	3.52
pH	SU	6.92	7.03	7.63	8.02	7.19	6.98	7.07	6.98	7.26	7.12
Temperature	deg C	28.93	28.85	30.63	29.35	28.62	28.46	28.67	28.77	28.56	28.26
Turbidity	NTU	18.6	7	14.3	12	15.9	16.8	20.7	16.9	15.9	15.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0071 J	0.0073 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0102	0.0169	0.0133	0.0116	< 0.0098 UB	< 0.0129 UB	0.0131	< 0.0147 UB	0.0156	0.0174
Barium - Total	mg/L	0.0390	0.0419	0.0313	0.0252	0.0404	0.0328	0.0425	0.0391	0.0323	0.0420
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.90	5.93	5.58	6.05	6.01	5.92 J	5.95 J	5.83	5.65	5.73
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 UB	< 0.0150 U	< 0.0150 U	0.0160	< 0.0150 UB	0.0025 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.71	2.74	2.60	2.80 J	2.74	2.79 J	2.73 J	2.70 J	2.60	2.62
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00077	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0011 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 UB	< 0.0100 U	0.0017 J	0.0111	< 0.0100 UB	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.9	26.1	24.6	26.6	26.3	26.3	26.1	25.7	24.8	25.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	0.012 J	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.11 UB	< 0.051 UB	< 0.16 UB	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.057 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA	< 5.0 UJ	3.9 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		7/15/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/23/2013
Depths (ft)		1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)071513	WS-014(1.5-2.0)071613	WS-014(1.5-2.0)071713	WS-014(1.5-2.0)071813	WS-014(1.5-2.0)071913	WS-014(1.5-2.0)072013	WS-014(1.5-2.0)072113	WS-014(1.5-2.0)072213	WS-014(1.5-2.0)072313	WS-014(5.5-6.0)072313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		7/25/2013	7/25/2013	7/26/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013	7/29/2013	7/29/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)072513	WS-014(5.5-6.0)072513	WS-014(1.5-2.0)072613	WS-014(5.5-6.0)072613	WS-014(1.5-2.0)072713	WS-014(5.5-6.0)072713	WS-014(1.5-2.0)072813	WS-014(5.5-6.0)072813	WS-014(1.5-2.0)072913	WS-014(5.5-6.0)072913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	102	78	78	76	76	76	75	75	75
Dissolved Oxygen	mg/l	6.56	5.09	5.95	5.01	4.32	3.85	7.41	7.13	6.17	5.67
pH	SU	6.95	6.89	6.78	7.06	6.94	7	7.48	7.52	6.95	7.24
Temperature	deg C	27.83	27.74	27.32	27.31	26.03	26.03	26.67	26.65	26.53	26.52
Turbidity	NTU	15.3	15.3	33.4	33.4	14.6	14.6	12.2	12.2	23.7	23.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0172 UB	< 0.0178 UB	0.0167	0.0168	0.0183	0.0185	< 0.0145 UB	< 0.0146 UB	< 0.0148 UB	< 0.0139 UB
Barium - Total	mg/L	0.0353	0.0361	0.0380	0.0387	0.0383	0.0379	< 0.0262 UB	< 0.0294 UB	< 0.0308 UB	0.0310
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.90	5.85	5.79	5.87	5.70	5.64	5.63 J	5.69 J	5.71	5.70
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0167	< 0.0150 U	0.0022 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.73	2.70	2.67	2.71	2.65	2.61	2.61 J	2.65 J	2.65	2.65
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J
Nickel - Total	mg/L	< 0.0100 U	0.0016 J	0.0100	0.0026 J	0.0018 J	0.0017 J	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.0	25.7	25.4	25.8	25.1	24.8	24.8	25.1	25.2	25.1
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	1.8 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		7/25/2013	7/25/2013	7/26/2013	7/26/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013	7/29/2013	7/29/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)072513	WS-014(5.5-6.0)072513	WS-014(1.5-2.0)072613	WS-014(5.5-6.0)072613	WS-014(1.5-2.0)072713	WS-014(5.5-6.0)072713	WS-014(1.5-2.0)072813	WS-014(5.5-6.0)072813	WS-014(1.5-2.0)072913	WS-014(5.5-6.0)072913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		7/30/2013	7/30/2013	7/31/2013	7/31/2013	8/1/2013	8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)073013	WS-014(5.5-6.0)073013	WS-014(1.5-2.0)073113	WS-014(5.5-6.0)073113	WS-014(1.5-2.0)080113	WS-014(5.5-6.0)080113	WS-014(1.5-2.0)080213	WS-014(5.5-6.0)080213	WS-014(1.5-2.0)080313	WS-014(5.5-6.0)080313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	76	76	76	76	78	78	78	80	79	141
Dissolved Oxygen	mg/l	5.7	4.83	5.4	4.86	6.38	5.53	6.4	4.6	5.3	0.75
pH	SU	7.01	7.07	7.21	7.18	7.32	7.07	7.31	7.22	6.84	6.94
Temperature	deg C	26.88	26.83	26.93	26.85	27.96	27.82	28.1	28.01	28.09	27.63
Turbidity	NTU	16.5	16.5	22.6	22.6	13.4	13.4	13.4	13.4	16.9	16.9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB
Barium - Dissolved	mg/l	< 0.0150 UB	< 0.0151 UB	< 0.0153 UB	< 0.0157 UB	< 0.0115 UB	< 0.0125 UB	0.0116	0.0142	0.0170	< 0.0149 UB
Barium - Total	mg/L	0.0324	0.0345	< 0.0313 UB	0.0327	0.0240	0.0293	0.0249	0.0428	0.0372	0.0419
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.80	5.84	5.84	5.84	5.65	5.87	5.81	6.10	5.96	5.74
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0020 J	< 0.0150 U	< 0.0150 U	0.0017 J	0.0019 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.72 J	2.73 J	2.68	2.69	2.60	2.68	2.67	2.79	2.78	2.71
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0021 J	0.0016 J	< 0.0100 U	0.0017 J	0.0020 J	0.0019 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.7	25.8	25.6	25.6	24.8	25.7	25.5	26.7	26.4	25.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Anthracene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Chrysene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Fluorene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
Pyrene - Total	ug/l	< 0.056 U	< 0.054 U	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.053 U	< 0.054 U	< 0.052 U	< 0.056 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.4 J	< 5.0 U	1.6 J	< 5.0 U	2.6 J	1.6 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		7/30/2013	7/30/2013	7/31/2013	7/31/2013	8/1/2013	8/1/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)073013	WS-014(5.5-6.0)073013	WS-014(1.5-2.0)073113	WS-014(5.5-6.0)073113	WS-014(1.5-2.0)080113	WS-014(5.5-6.0)080113	WS-014(1.5-2.0)080213	WS-014(5.5-6.0)080213	WS-014(1.5-2.0)080313	WS-014(5.5-6.0)080313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/4/2013	8/4/2013	8/5/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)080413	WS-014(5.5-6.0)080413	WS-014(1.5-2.0)080513	WS-014(5.5-6.0)080513	WS-014(1.5-2.0)080613	WS-014(5.5-6.0)080613	WS-014(1.5-2.0)080713	WS-014(5.5-6.0)080713	WS-014(1.5-2.0)080813	WS-014(5.5-6.0)080813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	79	79	79	80	80	80	82	85	83	83
Dissolved Oxygen	mg/l	6.18	5.23	3.28	2.79	3.28	3.18	5.4	1	4.83	4.01
pH	SU	7.62	7.43	6.73	6.54	6.91	6.95	7.02	6.86	7.04	7.12
Temperature	deg C	28.49	28.42	29.92	27.91	28.02	28.03	28.93	28.49	29.39	29.39
Turbidity	NTU	12.9	12.9	14.3	14.3	14.6	14.6	12.9	12.9	14.4	14.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0087 J	0.0101 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0104	0.0118	0.0114	0.0119	0.0129	0.0141	0.0095	0.0101	0.0133	0.0139
Barium - Total	mg/L	0.0246	0.0313	0.0431	0.0440	0.0491	0.0476	0.0225	0.0241	0.0365	0.0405
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.80	5.90	6.15	6.20	5.92	5.89	5.89	5.83	6.16	6.11
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.71	2.73	2.81	2.81	2.70	2.68	2.73	2.71	2.79	2.78
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	0.0016 J	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.6	25.9	26.9	27.1	25.9	25.7	26.0	25.7	26.9	26.7
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.055 U	< 0.051 U	< 0.060 U	< 0.051 U	< 0.056 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	2.0 J	R	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/4/2013	8/4/2013	8/5/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)080413	WS-014(5.5-6.0)080413	WS-014(1.5-2.0)080513	WS-014(5.5-6.0)080513	WS-014(1.5-2.0)080613	WS-014(5.5-6.0)080613	WS-014(1.5-2.0)080713	WS-014(5.5-6.0)080713	WS-014(1.5-2.0)080813	WS-014(5.5-6.0)080813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/9/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)080913	WS-014(5.5-6.0)080913	WS-014(1.5-2.0)081013	WS-014(5.5-6.0)081013	WS-014(1.5-2.0)081113	WS-014(5.5-6.0)081113	WS-014(1.5-2.0)081213	WS-014(5.5-6.0)081213	WS-014(1.5-2.0)081413	WS-014(5.5-6.0)081413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	83	84	84	84	84	84	83	83	83	83
Dissolved Oxygen	mg/l	5.32	4.84	5.57	4.6	4.63	3.81	5.59	4.84	5.49	4.61
pH	SU	6.84	6.98	6.62	7.14	6.84	6.96	7.16	7.27	6.81	6.98
Temperature	deg C	29.33	29.33	29.57	29.54	28.85	28.85	29.12	29.04	27.57	27.58
Turbidity	NTU	16.2	16.2	14.4	14.4	20.3	20.3	14.6	14.6	22.2	22.2
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0133	0.0134	0.0120	0.0121	0.0152	0.0166	0.0126	0.0150	0.0180	0.0192
Barium - Total	mg/L	0.0349	0.0347	0.0272	0.0307	0.0416	0.0452	0.0272	0.0365	0.0484	0.0488
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.22	6.11	6.27	6.02	5.99	6.18	6.08	6.18	6.43	6.19
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0018 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.84	2.78	2.86	2.75	2.73	2.82	2.76	2.79	2.94	2.84
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.2	26.7	27.4	26.4	26.2	27.0	26.5	26.9	28.2	27.2
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.056 U	< 0.054 U	< 0.052 U	< 0.053 U	< 0.057 U	< 0.055 U	< 0.053 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	3.6 J	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	4.1 J	2.0 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/9/2013	8/9/2013	8/10/2013	8/10/2013	8/11/2013	8/11/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)080913	WS-014(5.5-6.0)080913	WS-014(1.5-2.0)081013	WS-014(5.5-6.0)081013	WS-014(1.5-2.0)081113	WS-014(5.5-6.0)081113	WS-014(1.5-2.0)081213	WS-014(5.5-6.0)081213	WS-014(1.5-2.0)081413	WS-014(5.5-6.0)081413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/15/2013	8/15/2013	8/16/2013	8/16/2013	8/17/2013	8/17/2013	8/18/2013	8/18/2013	8/19/2013	8/19/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)081513	WS-014(5.5-6.0)081513	WS-014(1.5-2.0)081613	WS-014(5.5-6.0)081613	WS-014(1.5-2.0)081713	WS-014(5.5-6.0)081713	WS-014(1.5-2.0)081813	WS-014(5.5-6.0)081813	WS-014(1.5-2.0)081913	WS-014(5.5-6.0)081913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	80	80	79	79	76	76	76	76	77	76
Dissolved Oxygen	mg/l	5.78	5.27	6.44	5.63	5.46	5.06	5.06	4.93	5.73	4.84
pH	SU	7.07	7.11	6.75	7.14	6.72	6.9	6.69	6.95	5.7	6.34
Temperature	deg C	26.31	26.33	26.32	26.3	24.83	24.82	25.17	25.16	25.27	25.22
Turbidity	NTU	20.2	20.2	13.6	12.2	15.3	14.5	16.4	16	26.7	17.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0178	0.0181	0.0180	0.0174	0.0189	0.0201	0.0173	0.0170	< 0.0164 UB	< 0.0165 UB
Barium - Total	mg/L	0.0455	0.0444	0.0429	0.0431	0.0396	0.0401	0.0397	0.0398	0.0349	0.0354
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.19	6.04	6.15	6.18	6.00	5.95	6.30	6.14	5.96	5.89
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0027 J	0.0017 J	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.83	2.77	2.83	2.86	2.75	2.73	2.91	2.84	2.77	2.74
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	27.1	26.5	27.0	27.2	26.3	26.1	27.7	27.0	26.3	26.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	0.014 J	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	0.013 J	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	0.016 J	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	0.014 J	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	0.011 J	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	0.019 J	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.053 U	< 0.055 U	< 0.052 U	< 0.055 U	< 0.057 U	< 0.056 U	< 0.054 U	< 0.053 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UB	< 5.0 U	1.4 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/15/2013	8/15/2013	8/16/2013	8/16/2013	8/17/2013	8/17/2013	8/18/2013	8/18/2013	8/19/2013	8/19/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)081513	WS-014(5.5-6.0)081513	WS-014(1.5-2.0)081613	WS-014(5.5-6.0)081613	WS-014(1.5-2.0)081713	WS-014(5.5-6.0)081713	WS-014(1.5-2.0)081813	WS-014(5.5-6.0)081813	WS-014(1.5-2.0)081913	WS-014(5.5-6.0)081913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/23/2013	8/23/2013	8/24/2013	8/24/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)082013	WS-014(5.5-6.0)082013	WS-014(1.5-2.0)082113	WS-014(5.5-6.0)082113	WS-014(1.5-2.0)082213	WS-014(5.5-6.0)082213	WS-014(1.5-2.0)082313	WS-014(5.5-6.0)082313	WS-014(1.5-2.0)082413	WS-014(5.5-6.0)082413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	77	77	76	76	77	80	79	94	96
Dissolved Oxygen	mg/l	7.87	6.08	11.25	7.38	4.39	3.98	9.28	5.15	6.78	1.74
pH	SU	7.72	7.37	7.95	8.2	7.24	7.56	8.75	8.07	6.48	6.83
Temperature	deg C	26.59	26.18	27.2	26.8	27.2	26.8	29.16	26.96	28.37	27.2
Turbidity	NTU	11.9	16.7	12.2	14.3	11.5	11.4	12.5	12.3	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0075 J	< 0.0200 U	< 0.0200 U	0.0069 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0119	0.0201	< 0.0095 UB	< 0.0149 UB	0.0099	0.0121	0.0076	0.0121	< 0.0088 UB	< 0.0086 UB
Barium - Total	mg/L	< 0.0243 UB	0.0341	< 0.0217 UB	< 0.0352 UB	0.0237	0.0280	0.0201	0.0305	0.0193	0.0247
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.70	5.75	5.70	6.23	6.10	5.96	5.90	6.03	5.79	5.95
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.69	2.71	2.68	2.91	2.85	2.79	2.77	2.80	2.73	2.78
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	25.3	25.5	25.3	27.6	27.0	26.4	26.1	26.6	25.7	26.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 UJ	< 0.050 UJ	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.050 U	< 0.050 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	1.8 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/23/2013	8/23/2013	8/24/2013	8/24/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)082013	WS-014(5.5-6.0)082013	WS-014(1.5-2.0)082113	WS-014(5.5-6.0)082113	WS-014(1.5-2.0)082213	WS-014(5.5-6.0)082213	WS-014(1.5-2.0)082313	WS-014(5.5-6.0)082313	WS-014(1.5-2.0)082413	WS-014(5.5-6.0)082413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	0.9	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/25/2013	8/25/2013	8/26/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)082513	WS-014(5.5-6.0)082513	WS-014(1.5-2.0)082613	WS-014(5.5-6.0)082613	WS-014(1.5-2.0)082713	WS-014(5.5-6.0)082713	WS-014(1.5-2.0)082813	WS-014(5.5-6.0)082813	WS-014(1.5-2.0)082913	WS-014(5.5-6.0)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	100	99	89	95	94	94	75	68	82	72
Dissolved Oxygen	mg/l	5.45	5.09	7.09	4.64	3.46	3.04	5.61	3.02	4.06	2.62
pH	SU	NA	NA	NA	NA	NA	NA	6.1	6.69	6.52	6.6
Temperature	deg C	28.47	28.43	28.04	27.95	27.84	27.82	28.15	28.25	28.05	28.18
Turbidity	NTU	NA	NA	NA	NA	NA	NA	10.7	9.9	6.1	6.1
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0075 J	< 0.0200 U	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0089 J	0.0094 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0069	0.0073	0.0079	0.0086	0.0080	0.0081	0.0092	0.0097	0.0103	0.0102
Barium - Total	mg/L	0.0170	0.0180	0.0359	0.0343	0.0431	0.0426	0.0329	0.0334	0.0286	0.0293
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.99	5.96	6.28	6.15	6.47	6.36	6.28	6.48	6.38	6.42
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0038 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.79	2.79	2.87	2.78	2.95	2.90	2.81	2.89	2.85	2.88
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0019 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	26.5	26.4	27.5	26.8	28.3	27.8	27.3	28.1	27.7	27.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	0.011 J	< 0.053 U	< 0.052 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	0.074	< 0.053 U	< 0.052 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	0.053	< 0.053 U	< 0.052 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	0.058	< 0.053 U	< 0.052 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.052 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	4.6 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/25/2013	8/25/2013	8/26/2013	8/26/2013	8/27/2013	8/27/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)082513	WS-014(5.5-6.0)082513	WS-014(1.5-2.0)082613	WS-014(5.5-6.0)082613	WS-014(1.5-2.0)082713	WS-014(5.5-6.0)082713	WS-014(1.5-2.0)082813	WS-014(5.5-6.0)082813	WS-014(1.5-2.0)082913	WS-014(5.5-6.0)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.4 J	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/30/2013	8/30/2013	8/31/2013	8/31/2013	9/1/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/3/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)083013	WS-014(5.5-6.0)083013	WS-014(1.5-2.0)083113	WS-014(5.5-6.0)083113	WS-014(1.5-2.0)090113	WS-014(5.5-6.0)090113	WS-014(1.5-2.0)090213	WS-014(5.5-6.0)090213	WS-014(1.5-2.0)090313	WS-014(5.5-6.0)090313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	69	69	70	69	71	71	72	71	73	73
Dissolved Oxygen	mg/l	4.84	3.45	3.42	3.16	5.79	5.06	4.88	3.5	4.22	3.58
pH	SU	7.72	7.26	8.15	7.88	8.29	8.01	8.78	8.19	8.42	7.27
Temperature	deg C	28.82	28.65	28.85	28.6	29.23	29.13	29.03	29.33	28.89	28.95
Turbidity	NTU	4.9	4.6	3.7	3.7	4.8	5	6.9	8.2	8.5	8.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0117	0.0111	0.0117	0.0104	0.0107	0.0097	0.0083	0.0093	0.0070	0.0066
Barium - Total	mg/L	0.0233	0.0254	0.0220	0.0227	0.0205	0.0607	0.0229	0.0220	0.0477	0.0496
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 UJ	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.48	6.56	6.52	6.56	6.57	6.57	6.52	6.61	6.88	6.91
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0023 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.92	2.95	2.93	2.94	2.91	2.89	2.98	3.03	3.06	3.08
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	28.2	28.5	28.3	28.5	28.4	28.3	28.6	29.0	29.8	29.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Chrysene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.056 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	4.9 J	2.0 J	< 5.0 UJ	< 5.0 U	< 5.0 U	2.2 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		8/30/2013	8/30/2013	8/31/2013	8/31/2013	9/1/2013	9/1/2013	9/2/2013	9/2/2013	9/3/2013	9/3/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)083013	WS-014(5.5-6.0)083013	WS-014(1.5-2.0)083113	WS-014(5.5-6.0)083113	WS-014(1.5-2.0)090113	WS-014(5.5-6.0)090113	WS-014(1.5-2.0)090213	WS-014(5.5-6.0)090213	WS-014(1.5-2.0)090313	WS-014(5.5-6.0)090313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.3 UB	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/4/2013	9/4/2013	9/5/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013	9/7/2013	9/8/2013	9/8/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)090413	WS-014(5.5-6.0)090413	WS-014(1.5-2.0)090513	WS-014(5.5-6.0)090513	WS-014(1.5-2.0)090613	WS-014(5.5-6.0)090613	WS-014(1.5-2.0)090713	WS-014(5.5-6.0)090713	WS-014(1.5-2.0)090813	WS-014(5.5-6.0)090813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	72	72	72	72	75	74	76	75	75	75
Dissolved Oxygen	mg/l	4.07	4.01	3.75	3.26	5.01	3.14	5.58	3.02	3.3	2.09
pH	SU	7.75	7.22	8.18	7.53	8.21	7.42	7.65	6.89	7.63	6.82
Temperature	deg C	28.88	28.93	28.58	28.6	28.45	28.36	28.21	28.3	28.06	28.04
Turbidity	NTU	12.7	10.4	11.2	7.6	9.6	7.3	7.7	6.7	6.1	5.6
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0078	0.0064	0.0064	0.0064	0.0132	0.0125	0.0190	0.0247	0.0142	0.0147
Barium - Total	mg/L	0.0443	0.0498	0.0466	0.0485	0.0934	0.0877	0.0880	0.0853	0.0870	0.0912
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.91	6.81	6.95	6.99	7.11	7.08	7.04	6.93	7.04	7.13
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.07	3.02	3.09	3.12	3.15	3.13	3.14	3.09	3.15	3.17
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.9	29.5	30.1	30.3	30.7	30.6	30.5	30.0	30.6	30.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.4 J	< 5.0 U	2.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/4/2013	9/4/2013	9/5/2013	9/5/2013	9/6/2013	9/6/2013	9/7/2013	9/7/2013	9/8/2013	9/8/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)090413	WS-014(5.5-6.0)090413	WS-014(1.5-2.0)090513	WS-014(5.5-6.0)090513	WS-014(1.5-2.0)090613	WS-014(5.5-6.0)090613	WS-014(1.5-2.0)090713	WS-014(5.5-6.0)090713	WS-014(1.5-2.0)090813	WS-014(5.5-6.0)090813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/13/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)090913	WS-014(5.5-6.0)090913	WS-014(1.5-2.0)091013	WS-014(5.5-6.0)091013	WS-014(1.5-2.0)091113	WS-014(5.5-6.0)091113	WS-014(1.5-2.0)091213	WS-014(5.5-6.0)091213	WS-014(1.5-2.0)091313	WS-014(5.5-6.0)091313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	74	73	72	74	72	74	74	74	74
Dissolved Oxygen	mg/l	4.75	4.33	3.56	3.42	3.49	3.47	3.15	2.29	2.78	2.46
pH	SU	8	7.51	6.51	6.71	6.71	6.73	7.62	7.04	8.12	7.58
Temperature	deg C	28.76	28.74	28.78	28.8	28.98	28.78	28.57	28.65	28.09	28.2
Turbidity	NTU	6.3	6.1	9.6	5.4	8.2	6.2	5.9	4.4	11.1	6.7
Metals											
Arsenic - Dissolved	mg/l	0.0068 J	0.0089 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0103 J	0.0071 J	0.0072 J
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0088 J	0.0071 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0094	0.0096	0.0125	0.0144	< 0.0102 UB	< 0.0114 UB	< 0.0093 UB	< 0.0095 UB	0.0078	0.0075
Barium - Total	mg/L	0.0306	0.0388	0.0360	0.0671	0.0404	0.0449	0.0389	0.0400	0.0566	0.0533
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0048 J	< 0.0050 U
Calcium - Total	mg/l	7.08	6.98	6.84	6.92	7.19	7.24	7.19	7.03	7.32	7.38
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0045 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0020 J	< 0.0150 U	0.0018 J	< 0.0150 U	< 0.0150 U	0.0016 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.19	3.15	3.04	3.08	3.19	3.21	3.16	3.10	3.24	3.28
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0032 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0025 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.8	30.4	29.6	29.9	31.1	31.3	31.0	30.3	31.6	32.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 UJ	< 0.052 UJ
Fluorene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.054 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 UJ	2.0 J	< 5.0 UB	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/11/2013	9/11/2013	9/12/2013	9/12/2013	9/13/2013	9/13/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)090913	WS-014(5.5-6.0)090913	WS-014(1.5-2.0)091013	WS-014(5.5-6.0)091013	WS-014(1.5-2.0)091113	WS-014(5.5-6.0)091113	WS-014(1.5-2.0)091213	WS-014(5.5-6.0)091213	WS-014(1.5-2.0)091313	WS-014(5.5-6.0)091313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/14/2013	9/14/2013	9/15/2013	9/15/2013	9/16/2013	9/16/2013	9/17/2013	9/17/2013	9/18/2013	9/18/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)091413	WS-014(5.5-6.0)091413	WS-014(1.5-2.0)091513	WS-014(5.5-6.0)091513	WS-014(1.5-2.0)091613	WS-014(5.5-6.0)091613	WS-014(1.5-2.0)091713	WS-014(5.5-6.0)091713	WS-014(1.5-2.0)091813	WS-014(5.5-6.0)091813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	73	73	74	74	74	73	74	74
Dissolved Oxygen	mg/l	6.91	7.08	6.54	7.13	2.46	2.05	4.52	3.85	5.47	4.02
pH	SU	8.15	7.77	8.06	7.9	8	7.68	8.76	8.18	8.76	8.31
Temperature	deg C	26.75	26.87	26.54	26.71	25.18	25.24	25.93	25.97	26.2	26.21
Turbidity	NTU	15.6	9.3	14.6	10.1	17.2	17.5	11.1	10.6	7.3	7.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	0.0078 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0071 J	< 0.0200 U	0.0089 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0093 UB	0.0118	0.0109	0.0108	0.0150	0.0158	0.0178	0.0179	0.0143	0.0150
Barium - Total	mg/L	0.0473	0.0543	0.0529	0.0520	0.0834	0.0868	0.0531	0.0554	0.0392	0.0449
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.03	7.05	7.03	6.98	6.98	6.94	6.74	6.84	7.07	6.71
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0043 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.18	3.19	3.23	3.20	3.16	3.15	3.08	3.16	3.21	3.06
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0028 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	30.6	30.8	30.9	30.6	30.5	30.3	29.5	30.1	30.9	29.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.054 U	< 0.057 U	< 0.055 U	< 0.056 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UJ	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	3.7 J	2.4 J	< 5.0 U	< 5.0 UJ	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/14/2013	9/14/2013	9/15/2013	9/15/2013	9/16/2013	9/16/2013	9/17/2013	9/17/2013	9/18/2013	9/18/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)091413	WS-014(5.5-6.0)091413	WS-014(1.5-2.0)091513	WS-014(5.5-6.0)091513	WS-014(1.5-2.0)091613	WS-014(5.5-6.0)091613	WS-014(1.5-2.0)091713	WS-014(5.5-6.0)091713	WS-014(1.5-2.0)091813	WS-014(5.5-6.0)091813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/19/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/21/2013	9/22/2013	9/22/2013	9/23/2013	9/23/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)091913	WS-014(5.5-6.0)091913	WS-014(1.5-2.0)092013	WS-014(5.5-6.0)092013	WS-014(1.5-2.0)092113	WS-014(5.5-6.0)092113	WS-014(1.5-2.0)092213	WS-014(5.5-6.0)092213	WS-014(1.5-2.0)092313	WS-014(5.5-6.0)092313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	77	76	74	74	73	73	73	73
Dissolved Oxygen	mg/l	2.94	2.55	2.59	2.32	3.34	3.05	4.32	4.02	4.78	4.95
pH	SU	8.35	7.92	8.27	8.14	8.29	8.08	8.22	8.19	8.59	8.48
Temperature	deg C	26.1	26.11	26.09	26.18	24.21	24.36	23.8	23.81	23.74	23.88
Turbidity	NTU	5.1	6.1	18.2	19.8	19	12.5	11.8	8.6	14.2	9.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0068 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	0.0081 J	< 0.0200 U	< 0.0200 U	0.0087 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0197	0.0207	< 0.0231 UB	< 0.0220 UB	0.0197	0.0194	0.0203	0.0199	0.0183	0.0198
Barium - Total	mg/L	0.0720	0.0749	0.0872	0.0895	0.0587	0.0585	0.0467	0.0475	0.0511	0.0510
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.28	7.28	7.12	7.28	6.96	7.00	6.82	6.86	7.23	6.84
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0027 J	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.28	3.28	3.22	3.29	3.20	3.21	3.07	3.09	3.30	3.14
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0020 J	0.0020 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	31.7	31.7	31.0	31.7	30.6	30.7	29.7	29.9	31.6	30.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.056 U	< 0.053 U	< 0.054 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	R	< 5.0 U	2.5 J	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/19/2013	9/19/2013	9/20/2013	9/20/2013	9/21/2013	9/21/2013	9/22/2013	9/22/2013	9/23/2013	9/23/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)091913	WS-014(5.5-6.0)091913	WS-014(1.5-2.0)092013	WS-014(5.5-6.0)092013	WS-014(1.5-2.0)092113	WS-014(5.5-6.0)092113	WS-014(1.5-2.0)092213	WS-014(5.5-6.0)092213	WS-014(1.5-2.0)092313	WS-014(5.5-6.0)092313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/24/2013	9/24/2013	9/25/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013	9/27/2013	9/28/2013	9/28/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)092413	WS-014(5.5-6.0)092413	WS-014(1.5-2.0)092513	WS-014(5.5-6.0)092513	WS-014(1.5-2.0)092613	WS-014(5.5-6.0)092613	WS-014(1.5-2.0)092713	WS-014(5.5-6.0)092713	WS-014(1.5-2.0)092813	WS-014(5.5-6.0)092813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	75	73	73	73	73	73	74	74
Dissolved Oxygen	mg/l	3.88	3.49	3.91	3.61	7.48	4.9	2.83	2.91	2.69	2.44
pH	SU	8.62	8.23	8.14	7.95	8.16	8.69	8.4	8.15	8.08	7.83
Temperature	deg C	23.74	23.72	23.92	24.01	24.35	24.47	24.32	24.35	24.36	24.37
Turbidity	NTU	8.4	9	9.1	7.7	12	7	9	9.4	8.3	9
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0082 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0081 J	0.0070 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0206	0.0203	0.0201	0.0196	0.0172	0.0176	0.0196	0.0193	0.0178	0.0182
Barium - Total	mg/L	0.0580	0.0600	0.0550	0.0578	0.0398	0.0416	0.0507	0.0518	0.0621	0.0599
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.72	6.87	7.02	7.10	6.89	6.92	6.66	6.71	6.81	6.84
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0026 J	0.0029 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.06	3.12	3.17	3.22	3.18	3.20	3.10	3.11	3.13	3.15
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000079 J	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0029 J	0.0026 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.4	30.0	30.6	31.0	30.3	30.5	29.4	29.6	29.9	30.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.055 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UB	< 5.0 UB	R	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/24/2013	9/24/2013	9/25/2013	9/25/2013	9/26/2013	9/26/2013	9/27/2013	9/27/2013	9/28/2013	9/28/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)092413	WS-014(5.5-6.0)092413	WS-014(1.5-2.0)092513	WS-014(5.5-6.0)092513	WS-014(1.5-2.0)092613	WS-014(5.5-6.0)092613	WS-014(1.5-2.0)092713	WS-014(5.5-6.0)092713	WS-014(1.5-2.0)092813	WS-014(5.5-6.0)092813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/29/2013	9/29/2013	9/30/2013	9/30/2013	10/1/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/3/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)092913	WS-014(5.5-6.0)092913	WS-014(1.5-2.0)093013	WS-014(5.5-6.0)093013	WS-014(1.5-2.0)100113	WS-014(5.5-6.0)100113	WS-014(1.5-2.0)100213	WS-014(5.5-6.0)100213	WS-014(1.5-2.0)100313	WS-014(5.5-6.0)100313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	73	74	73	73	73	74	74	77	75
Dissolved Oxygen	mg/l	3.97	2.47	3.62	2.73	1.87	1.85	2.09	1.67	5.15	2.73
pH	SU	5.97	6.74	7.61	7.37	7.67	7.51	7.66	7.51	8.33	7.74
Temperature	deg C	24.99	24.96	24.57	24.62	24.66	24.65	24.72	24.72	24.19	24.52
Turbidity	NTU	6.2	5.9	5.9	6.6	5.7	5.9	4.6	6	6.1	6.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0186	0.0190	< 0.0191 UB	< 0.0193 UB	0.0217	0.0215	0.0222	0.0230	0.0269	0.0266
Barium - Total	mg/L	0.0415	0.0521	0.0453	0.0462	0.0522	0.0502	0.0508	0.0532	0.0670	0.0675
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.57	6.66	6.80	6.80	6.80	6.58	6.54	6.76	6.64	6.67
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0016 J	< 0.0150 U	0.0022 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.05	3.10	3.09	3.11	3.13	3.01	3.06	3.15	3.11	3.13
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	0.0017 J	0.0017 J	< 0.0100 U	0.0021 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	29.0	29.4	29.7	29.8	29.9	28.8	28.9	29.9	29.4	29.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Anthracene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Chrysene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Fluorene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.055 U	< 0.050 U	0.043 J	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
Pyrene - Total	ug/l	< 0.055 U	< 0.050 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.055 U	< 0.057 U	< 0.054 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	1.5 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		9/29/2013	9/29/2013	9/30/2013	9/30/2013	10/1/2013	10/1/2013	10/2/2013	10/2/2013	10/3/2013	10/3/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)092913	WS-014(5.5-6.0)092913	WS-014(1.5-2.0)093013	WS-014(5.5-6.0)093013	WS-014(1.5-2.0)100113	WS-014(5.5-6.0)100113	WS-014(1.5-2.0)100213	WS-014(5.5-6.0)100213	WS-014(1.5-2.0)100313	WS-014(5.5-6.0)100313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/4/2013	10/4/2013	10/5/2013	10/5/2013	10/6/2013	10/6/2013	10/7/2013	10/7/2013	10/8/2013	10/8/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)100413	WS-014(5.5-6.0)100413	WS-014(1.5-2.0)100513	WS-014(5.5-6.0)100513	WS-014(1.5-2.0)100613	WS-014(5.5-6.0)100613	WS-014(1.5-2.0)100713	WS-014(5.5-6.0)100713	WS-014(1.5-2.0)100813	WS-014(5.5-6.0)100813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	73	73	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	3.34	2.56	4.12	2.61	NA	NA	NA	NA	NA	NA
pH	SU	8.01	7.72	8.21	7.9	NA	NA	NA	NA	NA	NA
Temperature	deg C	25.09	25.05	25.31	24.97	NA	NA	NA	NA	NA	NA
Turbidity	NTU	8.7	7.2	7.1	6.9	NA	NA	NA	NA	NA	NA
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0255	0.0268	0.0260	0.0255	0.0232	0.0234	0.0221	0.0210	0.0193	0.0203
Barium - Total	mg/L	0.0539	0.0543	0.0548	0.0525	0.0447	0.0449	0.0425	0.0426	0.0414	0.0441
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.46	6.44	6.22	6.13	5.77	5.84	5.64	5.64	5.69	5.62
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.03	3.02	2.93	2.89	2.72	2.76	2.72	2.72	2.76	2.74
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	28.6	28.5	27.6	27.2	25.6	25.9	25.3	25.3	25.6	25.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Chrysene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.053 U	0.012 J	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Fluorene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.053 U	< 0.057 U	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Pyrene - Total	ug/l	< 0.052 U	< 0.053 U	0.047 J	< 0.058 U	< 0.053 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	R	< 5.0 U	< 5.0 U	1.8 J	1.9 J	< 5.0 U	< 5.0 U	5.3	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/4/2013	10/4/2013	10/5/2013	10/5/2013	10/6/2013	10/6/2013	10/7/2013	10/7/2013	10/8/2013	10/8/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)100413	WS-014(5.5-6.0)100413	WS-014(1.5-2.0)100513	WS-014(5.5-6.0)100513	WS-014(1.5-2.0)100613	WS-014(5.5-6.0)100613	WS-014(1.5-2.0)100713	WS-014(5.5-6.0)100713	WS-014(1.5-2.0)100813	WS-014(5.5-6.0)100813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/9/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/13/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)100913	WS-014(5.5-6.0)100913	WS-014(1.5-2.0)101013	WS-014(5.5-6.0)101013	WS-014(1.5-2.0)101113	WS-014(5.5-6.0)101113	WS-014(1.5-2.0)101213	WS-014(5.5-6.0)101213	WS-014(1.5-2.0)101313	WS-014(5.5-6.0)101313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	91	81	81	81	82	82	81	81	82	81
Dissolved Oxygen	mg/l	8.43	8.62	2.51	1.91	5.01	4.43	7.14	7.32	3.9	3.47
pH	SU	4.76	5.8	7.02	6.85	6.54	6.1	6.52	6.29	6.99	6.84
Temperature	deg C	20.12	20.55	20.73	20.68	20.35	20.41	20.7	20.68	21.16	21.25
Turbidity	NTU	28.9	22	20.3	18.2	16.9	16.1	17.5	18.8	17.2	16.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0202	0.0209	0.0179	0.0193	0.0199	0.0198	0.0179	0.0177	0.0167	0.0166
Barium - Total	mg/L	0.0435	0.0436	0.0415	0.0439	0.0444	0.0417	0.0413	0.0415	0.0351	0.0357
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.39	5.36	5.16	5.26	5.61	5.34	5.47	5.32	5.15	5.06
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0025 J	< 0.0150 U	0.0029 J	< 0.0150 U	0.0067 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.66	2.67	2.57	2.62	2.76	2.63	2.70	2.63	2.51	2.47
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0020 J	< 0.0100 U	0.0024 J	< 0.0100 U	0.0043 J	< 0.0100 U	0.0020 J	0.0016 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	24.4	24.4	23.5	23.9	25.4	24.1	24.8	24.1	23.2	22.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.056 U	< 0.055 U	< 0.052 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	2.2 J	< 5.0 U	< 5.0 U	< 5.0 U	1.4 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/9/2013	10/9/2013	10/10/2013	10/10/2013	10/11/2013	10/11/2013	10/12/2013	10/12/2013	10/13/2013	10/13/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)100913	WS-014(5.5-6.0)100913	WS-014(1.5-2.0)101013	WS-014(5.5-6.0)101013	WS-014(1.5-2.0)101113	WS-014(5.5-6.0)101113	WS-014(1.5-2.0)101213	WS-014(5.5-6.0)101213	WS-014(1.5-2.0)101313	WS-014(5.5-6.0)101313
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/18/2013	10/18/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)101413	WS-014(5.5-6.0)101413	WS-014(1.5-2.0)101513	WS-014(5.5-6.0)101513	WS-014(1.5-2.0)101613	WS-014(5.5-6.0)101613	WS-014(1.5-2.0)101713	WS-014(5.5-6.0)101713	WS-014(1.5-2.0)101813	WS-014(5.5-6.0)101813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	80	79	76	79	80	79	78	78	77	77
Dissolved Oxygen	mg/l	3.16	3.07	3.41	3.36	3.52	2.91	3.74	3.05	4.28	3.79
pH	SU	6.51	6.56	6.66	6.47	6.84	6.87	7.05	6.95	6.61	7.27
Temperature	deg C	20.88	20.89	21.12	21.13	19.37	19.88	18.94	18.91	18.66	18.68
Turbidity	NTU	16.7	17.9	18.6	18.3	22	21.2	18.2	18.9	24.1	22.5
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0166	0.0159	0.0180	0.0190	0.0189	0.0191	0.0149	0.0151	0.0164	0.0165
Barium - Total	mg/L	0.0316	0.0351	0.0321	0.0331	0.0332	0.0334	0.0340	0.0337	0.0305	0.0316
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.91	4.79	5.08	5.03	4.85	4.82	4.83	4.94	4.53	4.57
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0017 J	0.0043 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.45	2.40	2.53	2.51	2.41	2.39	2.39	2.40	2.27	2.30
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0030 J	0.0039 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	22.4	21.8	23.1	22.9	22.0	21.9	21.9	22.2	20.6	20.9
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Anthracene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Chrysene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Fluorene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.050 UB	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
Pyrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.060 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	1.5 J	< 5.0 U	< 5.0 U	1.7 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/14/2013	10/14/2013	10/15/2013	10/15/2013	10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/18/2013	10/18/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)101413	WS-014(5.5-6.0)101413	WS-014(1.5-2.0)101513	WS-014(5.5-6.0)101513	WS-014(1.5-2.0)101613	WS-014(5.5-6.0)101613	WS-014(1.5-2.0)101713	WS-014(5.5-6.0)101713	WS-014(1.5-2.0)101813	WS-014(5.5-6.0)101813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/19/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/23/2013	10/23/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)101913	WS-014(5.5-6.0)101913	WS-014(1.5-2.0)102013	WS-014(5.5-6.0)102013	WS-014(1.5-2.0)102113	WS-014(5.5-6.0)102113	WS-014(1.5-2.0)102213	WS-014(5.5-6.0)102213	WS-014(1.5-2.0)102313	WS-014(5.5-6.0)102313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	77	77	76	76	74	74	74	74	75	75
Dissolved Oxygen	mg/l	4.37	3.97	4.84	4.31	4.41	3.8	4.73	4.06	3.98	3.65
pH	SU	6.73	6.61	6.93	6.72	6.71	6.69	6.29	6.08	6.17	6.07
Temperature	deg C	18.07	18.2	17.34	17.57	17.44	17.27	17.13	16.97	16.31	16.34
Turbidity	NTU	27.2	26	22.8	25.1	24.7	24.6	23.2	19.9	22.5	21.3
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0070 J	0.0077 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0224	0.0140	0.0134	0.0145	0.0146	0.0139	< 0.0162 UB	< 0.0154 UB	0.0160	0.0163
Barium - Total	mg/L	0.0336	0.0335	0.0287	0.0301	0.0304	0.0314	0.0281	0.0281	0.0262	0.0267
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.72	4.69	4.62	4.64	4.34	4.44	4.54	4.42	4.31	4.26
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0016 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0020 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.35	2.33	2.32	2.36	2.20	2.25	2.30	2.24	2.19	2.17
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0019 J	< 0.0100 U	0.0015 J	0.0018 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	21.5	21.3	21.1	21.3	19.9	20.3	20.8	20.3	19.8	19.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Anthracene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Chrysene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Fluorene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	< 0.050 U
Pyrene - Total	ug/l	< 0.054 U	< 0.054 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.053 U	0.020 J
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	3.3 J	3.3 J	3.8 J	1.6 J	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/19/2013	10/19/2013	10/20/2013	10/20/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/23/2013	10/23/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)101913	WS-014(5.5-6.0)101913	WS-014(1.5-2.0)102013	WS-014(5.5-6.0)102013	WS-014(1.5-2.0)102113	WS-014(5.5-6.0)102113	WS-014(1.5-2.0)102213	WS-014(5.5-6.0)102213	WS-014(1.5-2.0)102313	WS-014(5.5-6.0)102313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/24/2013	10/24/2013	10/25/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013	10/27/2013	10/28/2013	10/28/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)102413	WS-014(5.5-6.0)102413	WS-014(1.5-2.0)102513	WS-014(5.5-6.0)102513	WS-014(1.5-2.0)102613	WS-014(5.5-6.0)102613	WS-014(1.5-2.0)102713	WS-014(5.5-6.0)102713	WS-014(1.5-2.0)102813	WS-014(5.5-6.0)102813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	74	74	76	76	74	74	74	74	72	72
Dissolved Oxygen	mg/l	4.1	4.86	5.39	5.02	4.64	4.45	3.82	3.7	3.7	3.16
pH	SU	6.38	6.39	6.65	6.54	6.58	6.36	6.37	6.26	6.64	6.29
Temperature	deg C	16.28	16.43	15.17	15.17	14.74	14.81	14.85	14.9	15.08	15.03
Turbidity	NTU	17.6	22.7	22.8	19.7	16.8	19.1	16.4	16.9	19.5	17.4
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0081 J	< 0.0200 U
Barium - Dissolved	mg/l	0.0158	0.0154	0.0157	0.0156	0.0150	0.0147	0.0154	0.0159	0.0159	0.0158
Barium - Total	mg/L	0.0260	0.0266	0.0245	0.0244	0.0243	0.0247	0.0244	0.0250	0.0260	0.0257
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.16	4.14	4.33	4.27	4.26	4.27	4.05	3.98	4.19	4.21
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	0.0049 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.10	2.11	2.16	2.14	2.14	2.16	2.09	2.05	2.12	2.14
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J	< 0.0100 U	0.0015 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	19.0	19.0	19.7	19.5	19.4	19.6	18.7	18.4	19.2	19.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	0.023 J	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	0.011 J	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	0.026 J	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	0.023 J	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	< 5.0 U	1.7 J	1.7 J	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		10/24/2013	10/24/2013	10/25/2013	10/25/2013	10/26/2013	10/26/2013	10/27/2013	10/27/2013	10/28/2013	10/28/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(1.5-2.0)102413	WS-014(5.5-6.0)102413	WS-014(1.5-2.0)102513	WS-014(5.5-6.0)102513	WS-014(1.5-2.0)102613	WS-014(5.5-6.0)102613	WS-014(1.5-2.0)102713	WS-014(5.5-6.0)102713	WS-014(1.5-2.0)102813	WS-014(5.5-6.0)102813
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-015	WS-015	WS-015	WS-015
Sample Date		10/29/2013	10/29/2013	10/30/2013	10/30/2013	10/31/2013	10/31/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-014(1.5-2.0)102913	WS-014(5.5-6.0)102913	WS-014(1.5-2.0)103013	WS-014(5.5-6.0)103013	WS-014(1.5-2.0)103113	WS-014(5.5-6.0)103113	WS-015(1.5-2.0)041613	WS-015(4.0-4.5)041613	WS-015(1.5-2.0)042213	WS-015(5.0-5.5)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	73	73	73	73	79	79	61	59	56	57
Dissolved Oxygen	mg/l	4.19	3.59	5.27	4.41	5.69	5.65	7.94	7.04	8.89	8.07
pH	SU	6.75	6.35	6.61	6.37	5.64	5.75	6.59	6.42	6.87	6.8
Temperature	deg C	15.48	15.39	16.96	16.63	17.25	17.11	20.05	19.2	18.31	17.94
Turbidity	NTU	20	19.9	19	18.3	21.7	22.1	10.7	11.2	7.5	7.7
Metals											
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 UB
Barium - Dissolved	mg/l	0.0169	0.0164	0.0158	0.0159	0.0157	0.0146	NA	NA	NA	NA
Barium - Total	mg/L	0.0266	0.0256	0.0253	0.0247	0.0252	0.0254	0.0161	0.0164	0.0156	0.0154
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB
Calcium - Total	mg/l	4.02	3.94	3.93	3.90	4.07	4.08	3.20	3.15	3.20	3.22
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0055 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.10	2.04	2.00	2.01	2.11	2.13	1.51	1.50	1.55	1.56
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0013 J	< 0.0100 U	0.0014 J	0.0011 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	18.7	18.2	18.1	18.0	18.9	19.0	14.2	14.0	14.4	14.4
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	2.8 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-015	WS-015	WS-015	WS-015
Sample Date		10/29/2013	10/29/2013	10/30/2013	10/30/2013	10/31/2013	10/31/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-014(1.5-2.0)102913	WS-014(5.5-6.0)102913	WS-014(1.5-2.0)103013	WS-014(5.5-6.0)103013	WS-014(1.5-2.0)103113	WS-014(5.5-6.0)103113	WS-015(1.5-2.0)041613	WS-015(4.0-4.5)041613	WS-015(1.5-2.0)042213	WS-015(5.0-5.5)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-015	WS-015	WS-016	WS-016	WS-016	WS-016	WS-016	WS-016	WS-017	WS-017
Sample Date		4/24/2013	4/24/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/16/2013	4/16/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-015(1.5-2.0)042413	WS-015(5.5-6.0)042413	WS-016(1.5-2.0)041613	WS-016(4.0-4.5)041613	WS-016(1.5-2.0)042213	WS-016(4.0-4.5)042213	WS-016(1.5-2.0)042413	WS-016(4.5-5.0)042413	WS-017(1.5-2.0)041613	WS-017(4.0-4.5)041613
Validation Level		Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	55	55	63	63	57	57	55	56	67	68
Dissolved Oxygen	mg/l	8.31	8.24	8.22	8.13	8.78	8.45	8.11	8.09	7.92	7.65
pH	SU	6.88	6.93	6.71	6.69	6.77	6.8	6.63	6.82	6.62	6.6
Temperature	deg C	17.95	17.95	21.24	20.2	18.76	18.69	18.25	18.23	19.87	19.7
Turbidity	NTU	NA	NA	11.4	11.5	13.1	15.6	NA	NA	10	10.8
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0180	0.0183	0.0158	0.0164	0.0155	0.0153	0.0182	0.0183	0.0152	0.0154
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.40	3.39	3.32	3.41	3.23	3.25	3.42	3.37	3.56	3.65
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.67	1.66	1.54	1.58	1.54	1.55	1.69	1.65	1.61	1.66
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0018 J	0.0020 J	0.0013 J	0.0013 J	0.0013 J	0.0014 J	0.0020 J	0.0017 J	< 0.0100 U	0.0013 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	15.4	15.3	14.6	15.0	14.4	14.5	15.5	15.2	15.5	16.0
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-015	WS-015	WS-016	WS-016	WS-016	WS-016	WS-016	WS-016	WS-017	WS-017
Sample Date		4/24/2013	4/24/2013	4/16/2013	4/16/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/16/2013	4/16/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-015(1.5-2.0)042413	WS-015(5.5-6.0)042413	WS-016(1.5-2.0)041613	WS-016(4.0-4.5)041613	WS-016(1.5-2.0)042213	WS-016(4.0-4.5)042213	WS-016(1.5-2.0)042413	WS-016(4.5-5.0)042413	WS-017(1.5-2.0)041613	WS-017(4.0-4.5)041613
Validation Level		Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-017	WS-017	WS-017	WS-017	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/17/2013	4/17/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013
Depths (ft)		1.5-2 ft	4-4.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	7-7.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-017(1.5-2.0)042213	WS-017(4.0-4.5)042213	WS-017(1.5-2.0)042413	WS-017(4.5-5.0)042413	WS-018(1.5-2.0)041713	WS-018(7.0-7.5)041713	WS-018(1.5-2.0)042213	WS-018(4.0-4.5)042213	WS-018(1.5-2.0)042413	WS-018(4.0-4.5)042413
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	66	66	65	65	78	74	55	56	86	86
Dissolved Oxygen	mg/l	8.49	8.3	7.93	7.88	6.02	5.75	8.28	8.01	8.71	8.55
pH	SU	6.59	6.58	6.68	6.79	6.44	6.11	6.55	6.49	6.99	6.96
Temperature	deg C	18.34	17.79	18.03	18.05	22.41	20.57	19.83	19.03	19.6	19.4
Turbidity	NTU	11.3	12	NA	NA	NA	NA	13.3	13.9	NA	NA
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UB	< 0.0200 UB	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0171	0.0163	0.0187	0.0178	0.0262	0.0259	0.0191	0.0191	0.0228	0.0215
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.00	4.08	4.08	4.02	3.73	3.75	3.08	3.11	3.21	3.15
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0011 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0011 J	< 0.0150 U	< 0.0150 U	0.0011 J	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.76	1.80	1.87	1.84	1.88	1.89	1.55	1.56	1.64	1.61
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0027 J	0.0023 J	0.0025 J	0.0022 J	0.0022 J	0.0015 J	0.0016 J	0.0016 J	0.0013 J	0.0015 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	17.3	17.6	17.9	17.6	17.0	17.1	14.1	14.2	14.8	14.5
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	4.0 J	1.8 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-017	WS-017	WS-017	WS-017	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		4/22/2013	4/22/2013	4/24/2013	4/24/2013	4/17/2013	4/17/2013	4/22/2013	4/22/2013	4/24/2013	4/24/2013
Depths (ft)		1.5-2 ft	4-4.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	7-7.5 ft	1.5-2 ft	4-4.5 ft	1.5-2 ft	4-4.5 ft
Sample ID		WS-017(1.5-2.0)042213	WS-017(4.0-4.5)042213	WS-017(1.5-2.0)042413	WS-017(4.5-5.0)042413	WS-018(1.5-2.0)041713	WS-018(7.0-7.5)041713	WS-018(1.5-2.0)042213	WS-018(4.0-4.5)042213	WS-018(1.5-2.0)042413	WS-018(4.0-4.5)042413
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		4/29/2013	4/29/2013	5/6/2013	5/13/2013	5/20/2013	5/29/2013	6/3/2013	6/19/2013	7/1/2013	7/15/2013
Depths (ft)		1.5-2 ft	4-4.5 ft	1-1.5 ft	1-1.5 ft	1.5-2 ft	0 ft	0 ft	0 ft	0 ft	1.5-2 ft
Sample ID		WS-018(1.5-2.0)042913	WS-018(4.0-4.5)042913	WS-018(1.0-1.5)050613	WS-018(1.0-1.5)051313	WS-018(1.5-2.0)052013	WS-018(SURFACE)052913	WS-018(SURFACE)060313	WS-018(SURFACE)061913	WS-018(SURFACE)070113	WS-018(1.5-2.0)071513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	57	56	54	96	81	75	88	125	106	92
Dissolved Oxygen	mg/l	8.03	7.88	8.75	8.1	6.2	6.96	10.9	6.79	7.62	7.78
pH	SU	6.66	6.57	6.75	6.96	6.61	6.92	8.45	6.29	7.1	7.44
Temperature	deg C	18.78	18.44	16.82	22.06	24.09	25.79	26.79	29.95	29.37	31.3
Turbidity	NTU	17.8	18.8	NA	NA	NA	8.1	NA	NA	NA	25.4
Metals											
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0164
Barium - Total	mg/L	0.0234	0.0235	0.0232	0.0206	0.0264	0.0199	0.0171	0.0235	0.0285	0.0405
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.21	3.16	3.32	3.32	4.01	3.92	4.03	5.19	5.60	6.00
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.64	1.62	1.66	1.67	1.91	1.86	1.91	2.42 J	2.63	2.87
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	0.00022	0.00034	0.00018 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0100 U
Nickel - Total	mg/L	0.0014 J	< 0.0100 U	< 0.0100 U	0.0012 J	< 0.0100 U	< 0.0100 U	0.0020 J	0.0013 J	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U
Vanadium - Total	mg/L	0.0017 J	0.0013 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other											
Hardness (as CaCO3)	mg/l	14.8	14.6	15.1	15.2	17.9	17.5	17.9	22.9	24.8	26.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.065	< 0.051 U	< 0.050 U	< 0.051 U	0.18	< 0.13 UB
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.053 U
TPH											
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		4/29/2013	4/29/2013	5/6/2013	5/13/2013	5/20/2013	5/29/2013	6/3/2013	6/19/2013	7/1/2013	7/15/2013
Depths (ft)		1.5-2 ft	4-4.5 ft	1-1.5 ft	1-1.5 ft	1.5-2 ft	0 ft	0 ft	0 ft	0 ft	1.5-2 ft
Sample ID		WS-018(1.5-2.0)042913	WS-018(4.0-4.5)042913	WS-018(1.0-1.5)050613	WS-018(1.0-1.5)051313	WS-018(1.5-2.0)052013	WS-018(SURFACE)052913	WS-018(SURFACE)060313	WS-018(SURFACE)061913	WS-018(SURFACE)070113	WS-018(1.5-2.0)071513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013
Depths (ft)		1.5-2 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(1.5-2.0)071613	WS-018(SURFACE)071713	WS-018(SURFACE)071813	WS-018(SURFACE)071913	WS-018(SURFACE)072013	WS-018(SURFACE)072113	WS-018(SURFACE)072213	WS-018(SURFACE)072313	WS-018(SURFACE)072413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	93	94	89	97	84	94	84	100	82
Dissolved Oxygen	mg/l	3.32	5.1	5.5	6.82	4.18	5.46	5.79	4.39	3.84
pH	SU	6.18	7.58	8.5	7.7	7.4	7.49	8.66	7.37	7.16
Temperature	deg C	28.09	30.54	31.6	29.5	29.5	29.39	29.31	30.06	27.34
Turbidity	NTU	30.9	12.8	13.2	10.9	11.2	10.5	12.5	15.7	15
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0086 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0247	0.0163	0.0157	< 0.0127 UB	< 0.0136 UB	0.0158	0.0179	0.0210	0.0241
Barium - Total	mg/L	0.0796	0.0458	0.0343	0.0358	0.0377	0.0365	0.0365	0.0449	0.0492
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.73	5.94	6.02	5.91	6.07 J	6.27 J	6.00	5.71	5.76 J
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0021 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0076 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.28	2.82	2.82 J	2.78	2.85 J	2.93 J	2.88 J	2.70	2.69 J
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000088 J	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00020	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0020 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	0.0030 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0015 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0036 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	30.3	26.5	26.6	26.2	26.9	27.7	26.8	25.4	25.5
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	0.071	0.38	< 0.058 UB	0.035 J	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	< 5.0 U	NA	NA	NA	NA	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/21/2013	7/22/2013	7/23/2013	7/24/2013
Depths (ft)		1.5-2 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(1.5-2.0)071613	WS-018(SURFACE)071713	WS-018(SURFACE)071813	WS-018(SURFACE)071913	WS-018(SURFACE)072013	WS-018(SURFACE)072113	WS-018(SURFACE)072213	WS-018(SURFACE)072313	WS-018(SURFACE)072413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)072513	WS-018(SURFACE)072613	WS-018(SURFACE)072713	WS-018(SURFACE)072813	WS-018(SURFACE)072913	WS-018(SURFACE)073013	WS-018(SURFACE)073113	WS-018(SURFACE)080113	WS-018(SURFACE)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	83	80	92	79	85	80	84	83	67
Dissolved Oxygen	mg/l	4.36	3.68	3.57	3.63	5.02	3.86	4.62	3.7	5.58
pH	SU	7.28	7.21	7.16	7.42	7.73	7.29	7.11	7.38	7.88
Temperature	deg C	28.71	27.36	27.53	27.2	27.73	27.39	29.54	28.6	28.49
Turbidity	NTU	13.6	14.7	10.8	13	13.4	13.5	10.5	10.8	10.1
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0188 UB	0.0299	0.0184	0.0178	< 0.0186 UB	< 0.0180 UB	< 0.0165 UB	< 0.0161 UB	0.0172
Barium - Total	mg/L	0.0534	0.0434	0.0384	0.0466	0.0541	0.0421	0.0369	0.0352	0.0390
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.96	5.79	5.40	5.73 J	5.79	5.96	5.50	5.69	5.80
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.86	2.72	2.59	2.71 J	2.79	2.87 J	2.61	2.68	2.74
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0021 J	< 0.0100 U	0.0025 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0016 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	0.0024 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0020 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.6	25.7	24.1	25.5	25.9	26.7	24.5	25.2	25.8
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 UB	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.055 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U	2.1 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		7/25/2013	7/26/2013	7/27/2013	7/28/2013	7/29/2013	7/30/2013	7/31/2013	8/1/2013	8/2/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)072513	WS-018(SURFACE)072613	WS-018(SURFACE)072713	WS-018(SURFACE)072813	WS-018(SURFACE)072913	WS-018(SURFACE)073013	WS-018(SURFACE)073113	WS-018(SURFACE)080113	WS-018(SURFACE)080213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)080313	WS-018(SURFACE)080413	WS-018(SURFACE)080513	WS-018(SURFACE)080613	WS-018(SURFACE)080713	WS-018(SURFACE)080813	WS-018(SURFACE)080913	WS-018(SURFACE)081013	WS-018(SURFACE)081113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	83	85	82	81	91	89	60	90	132
Dissolved Oxygen	mg/l	5.49	5.2	4.91	5.31	4.19	3.98	4.51	3.18	3.46
pH	SU	7.7	7.67	7.35	7.52	7.49	7.41	7.12	7.29	6.84
Temperature	deg C	29.67	29.16	29.18	29.16	29.93	29.74	29.22	29.1	28.47
Turbidity	NTU	10.2	11.2	23.9	16.1	12.8	18.6	17.6	12	19
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 UB	0.0093 J	< 0.0200 U	0.0095 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0151 UB	0.0207	0.0173	0.0208	0.0493	0.0261	0.0271	0.0216	0.0231
Barium - Total	mg/L	0.0347	0.0455	0.0346	0.0433	0.0945	0.0457	0.0517	0.0383	0.0624
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.91	5.97	5.72	5.73	5.96	6.09	6.05	6.36	6.17
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	0.0048 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.74	2.84	2.69	2.69	2.77	2.83	2.81	2.94	2.85
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00013 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.1	26.6	25.4	25.4	26.3	26.8	26.7	28.0	27.1
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.053 UB	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/3/2013	8/4/2013	8/5/2013	8/6/2013	8/7/2013	8/8/2013	8/9/2013	8/10/2013	8/11/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)080313	WS-018(SURFACE)080413	WS-018(SURFACE)080513	WS-018(SURFACE)080613	WS-018(SURFACE)080713	WS-018(SURFACE)080813	WS-018(SURFACE)080913	WS-018(SURFACE)081013	WS-018(SURFACE)081113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	0.1 J	< 0.5 UB
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)081213	WS-018(SURFACE)081313	WS-018(SURFACE)081413	WS-018(SURFACE)081513	WS-018(SURFACE)081613	WS-018(SURFACE)081713	WS-018(SURFACE)081813	WS-018(SURFACE)081913	WS-018(SURFACE)082013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	88	86	83	80	80	78	80	81	56
Dissolved Oxygen	mg/l	3.55	4.42	3.87	5.15	5.01	4.4	4.6	4.04	3.92
pH	SU	7.29	7.25	7.25	7.43	7.61	7.3	7.39	7.55	7.97
Temperature	deg C	28.81	28.91	26.85	26.32	25.16	24.1	25.72	26.53	28.29
Turbidity	NTU	11.9	11.5	17.1	13.5	11.1	9.8	9	9.1	13.1
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0081 J	0.0079 J	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0260	0.0234	0.0251	0.0211	0.0205	0.0219	0.0222	< 0.0212 UB	0.0212
Barium - Total	mg/L	0.0488	0.0518	0.0401	0.0382	0.0391	0.0386	0.0391	0.0381	0.0367
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.11	6.22	6.11	6.02	6.00	6.05	6.19	5.97	5.77
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	0.0017 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.82	2.90	2.85	2.80	2.82	2.85	2.90	2.84	2.78
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.9	27.5	27.0	26.6	26.6	26.9	27.4	26.6	25.8
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/12/2013	8/13/2013	8/14/2013	8/15/2013	8/16/2013	8/17/2013	8/18/2013	8/19/2013	8/20/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)081213	WS-018(SURFACE)081313	WS-018(SURFACE)081413	WS-018(SURFACE)081513	WS-018(SURFACE)081613	WS-018(SURFACE)081713	WS-018(SURFACE)081813	WS-018(SURFACE)081913	WS-018(SURFACE)082013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	5.7	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U
Allyl chloride	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)082113	WS-018(SURFACE)082213	WS-018(SURFACE)082313	WS-018(SURFACE)082413	WS-018(SURFACE)082513	WS-018(SURFACE)082613	WS-018(SURFACE)082713	WS-018(SURFACE)082813	WS-018(SURFACE)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	82	85	88	104	112	106	147	84	72
Dissolved Oxygen	mg/l	4.15	3.79	4.58	3.56	2.97	0.02	3.84	4.93	4.43
pH	SU	7.76	7.58	7.82	7.36	6.48	NA	6.33	6.61	8.07
Temperature	deg C	28.74	29.21	30.54	29.97	27.27	31.07	29.97	32.27	32.26
Turbidity	NTU	10.9	8.7	10.3	NA	NA	NA	15.3	10.1	1.5
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	0.0071 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0073 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0089 J	< 0.0200 U
Barium - Dissolved	mg/l	< 0.0198 UB	0.0209	0.0161	0.0186	0.0205	0.0292	0.0429	0.0327	0.0454
Barium - Total	mg/L	< 0.0359 UB	0.0355	0.0341	0.0451	0.0410	0.0512	0.0899	0.0598	0.0875
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.83	6.06	5.85	5.86	6.50	6.24	6.34	6.28	6.45
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.80	2.90	2.82	2.84	3.06	2.88	2.99	2.90	2.96
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	26.1	27.1	26.2	26.3	28.8	27.4	28.2	27.6	28.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 UJ	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.8 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/21/2013	8/22/2013	8/23/2013	8/24/2013	8/25/2013	8/26/2013	8/27/2013	8/28/2013	8/29/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)082113	WS-018(SURFACE)082213	WS-018(SURFACE)082313	WS-018(SURFACE)082413	WS-018(SURFACE)082513	WS-018(SURFACE)082613	WS-018(SURFACE)082713	WS-018(SURFACE)082813	WS-018(SURFACE)082913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.7 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)083013	WS-018(SURFACE)083113	WS-018(SURFACE)090113	WS-018(SURFACE)090213	WS-018(SURFACE)090313	WS-018(SURFACE)090413	WS-018(SURFACE)090513	WS-018(SURFACE)090613	WS-018(SURFACE)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	71	69	77	78	79	77	79	78	77
Dissolved Oxygen	mg/l	3.74	3.91	3.2	3.2	3.27	3.74	3.79	3.95	4.62
pH	SU	8.97	8.77	8.62	8.31	8.22	8.42	8.4	8.37	8.24
Temperature	deg C	32.13	32.2	31.35	30.54	30.71	29.9	30.51	30.04	29.22
Turbidity	NTU	3.4	4.1	6.1	1.6	22.3	1.5	10.8	0.8	2.1
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	0.0073 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0081 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0075 J	< 0.0200 UJ	0.010 J	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U	0.0070 J
Barium - Dissolved	mg/l	0.0427	0.0610	0.116	0.117	0.0634	0.0571	0.0586	0.0623	0.0544
Barium - Total	mg/L	0.0846	0.156	0.226	0.286	0.108	0.124	0.104	0.0953	0.0922
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 UJ	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.64	7.17	6.70	6.88	6.63	6.79	7.13	6.93	7.10
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.06	3.24	3.01	3.19	3.08	3.15	3.27	3.17	3.26
Mercury - Dissolved	mg/l	< 0.00020 U	0.00012 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0073	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	29.2	31.2	29.1	30.3	29.2	29.9	31.3	30.3	31.2
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.054 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		8/30/2013	8/31/2013	9/1/2013	9/2/2013	9/3/2013	9/4/2013	9/5/2013	9/6/2013	9/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)083013	WS-018(SURFACE)083113	WS-018(SURFACE)090113	WS-018(SURFACE)090213	WS-018(SURFACE)090313	WS-018(SURFACE)090413	WS-018(SURFACE)090513	WS-018(SURFACE)090613	WS-018(SURFACE)090713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)090813	WS-018(SURFACE)090913	WS-018(SURFACE)091013	WS-018(SURFACE)091113	WS-018(SURFACE)091213	WS-018(SURFACE)091313	WS-018(SURFACE)091413	WS-018(SURFACE)091513	WS-018(SURFACE)091613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	78	80	75	75	76	78	76	75	77
Dissolved Oxygen	mg/l	2.89	2.89	2.87	2.02	2.31	3.15	3.4	3.62	3.06
pH	SU	8.18	8.63	8.07	7.52	8.07	7.98	8.53	8.71	8.17
Temperature	deg C	29.4	30.35	29.12	30.22	29.96	27.59	25.74	25.65	25.86
Turbidity	NTU	1.6	0.1	0.3	0.3	0.1	0.1	2.7	4.6	2.2
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	< 0.0200 U	0.0077 J	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0072 J	0.0074 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0594	0.0586	0.0496	0.0426	0.0376	0.0399	0.0361	0.0356	0.0388
Barium - Total	mg/L	0.0861	0.0832	0.0738	0.0646	0.0617	0.0614	0.0640	0.0588	0.0950
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.93	7.11	7.33	7.10	7.02	7.38	6.96	6.93	7.05
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.20	3.29	3.34	3.27	3.17	3.37	3.24	3.23	3.27
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	30.5	31.3	32.1	31.2	30.6	32.3	30.7	30.6	31.1
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	0.012 J	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 UJ	< 0.050 U	< 0.052 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 UB	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.052 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		9/8/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/14/2013	9/15/2013	9/16/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)090813	WS-018(SURFACE)090913	WS-018(SURFACE)091013	WS-018(SURFACE)091113	WS-018(SURFACE)091213	WS-018(SURFACE)091313	WS-018(SURFACE)091413	WS-018(SURFACE)091513	WS-018(SURFACE)091613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)091713	WS-018(SURFACE)091813	WS-018(SURFACE)091913	WS-018(SURFACE)092013	WS-018(SURFACE)092113	WS-018(SURFACE)092213	WS-018(SURFACE)092313	WS-018(SURFACE)092413	WS-018(SURFACE)092513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	77	77	78	76	71	81	76	75	76
Dissolved Oxygen	mg/l	4.13	2.65	4.06	4.21	3.08	1.7	2.87	2.76	3.64
pH	SU	8.54	8.71	8.4	8.52	7.83	8.26	8.57	8.13	8.41
Temperature	deg C	27.59	26.56	28.26	27.57	24.09	21.39	24.17	24.24	23.26
Turbidity	NTU	2.8	12.4	0	1.8	0	8.9	2.8	3.1	6.8
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	0.0094 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0376	0.0420	0.0485	< 0.0612 UB	0.0503	0.0461	0.0348	0.0382	0.0404
Barium - Total	mg/L	0.0690	0.0683	0.0848	0.0837	0.0725	0.0657	0.0544	0.0591	0.102
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.07	7.05	7.14	7.23	7.15	7.24	7.02	6.70	7.36
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.27	3.25	3.27	3.34	3.34	3.34	3.30	3.13	3.41
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	31.1	31.0	31.3	31.8	31.6	31.8	31.1	29.6	32.4
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	0.011 J	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.084 UB	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.050 U	< 0.052 U	< 0.051 U	< 0.059 U	< 0.050 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.6 J	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		9/17/2013	9/18/2013	9/19/2013	9/20/2013	9/21/2013	9/22/2013	9/23/2013	9/24/2013	9/25/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)091713	WS-018(SURFACE)091813	WS-018(SURFACE)091913	WS-018(SURFACE)092013	WS-018(SURFACE)092113	WS-018(SURFACE)092213	WS-018(SURFACE)092313	WS-018(SURFACE)092413	WS-018(SURFACE)092513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)092613	WS-018(SURFACE)092713	WS-018(SURFACE)092813	WS-018(SURFACE)092913	WS-018(SURFACE)093013	WS-018(SURFACE)100113	WS-018(SURFACE)100213	WS-018(SURFACE)100313	WS-018(SURFACE)100413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	74	76	76	77	74	87	86	83	75
Dissolved Oxygen	mg/l	4.11	3.17	2.76	2.29	2.81	0.63	2.97	2.67	3.45
pH	SU	8.68	8.52	8.5	7.8	8.53	7.67	7.58	8	8.47
Temperature	deg C	25.39	25.64	25.63	24.58	25.61	24.77	24.08	25.31	25.98
Turbidity	NTU	7.7	1.9	3	0.8	3.2	21.9	2.7	17.6	0.9
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0082 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0341	0.0401	0.0338	0.0459	0.0379	0.0409	0.0443	0.0354	0.0362
Barium - Total	mg/L	0.0592	0.0770	0.0791	0.0858	0.0608	0.0563	0.0593	0.0641	0.0545
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.86	6.63	6.88	6.92	6.94	6.94	6.82	6.83	6.59
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.24	3.16	3.24	3.27	3.22	3.21	3.22	3.23	3.11
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 UB	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	0.0017 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	30.5	29.6	30.5	30.7	30.6	30.5	30.3	30.3	29.3
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Chrysene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
Pyrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.055 U	< 0.051 U	< 0.056 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 UB	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	< 5.0 U	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		9/26/2013	9/27/2013	9/28/2013	9/29/2013	9/30/2013	10/1/2013	10/2/2013	10/3/2013	10/4/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)092613	WS-018(SURFACE)092713	WS-018(SURFACE)092813	WS-018(SURFACE)092913	WS-018(SURFACE)093013	WS-018(SURFACE)100113	WS-018(SURFACE)100213	WS-018(SURFACE)100313	WS-018(SURFACE)100413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 UB	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)100513	WS-018(SURFACE)100613	WS-018(SURFACE)100713	WS-018(SURFACE)100813	WS-018(SURFACE)100913	WS-018(SURFACE)101013	WS-018(SURFACE)101113	WS-018(SURFACE)101213	WS-018(SURFACE)101313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	72	NA	NA	NA	85	95	86	83	88
Dissolved Oxygen	mg/l	3.31	NA	NA	NA	4.26	6.35	7.69	5.41	5.52
pH	SU	8.32	NA	NA	NA	7.6	5.36	7.98	7.46	7.22
Temperature	deg C	25.62	NA	NA	NA	21.54	18.01	21.05	21.94	19.65
Turbidity	NTU	3.1	NA	NA	NA	14.5	31.2	6.1	8.1	14
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 UB	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 UJ	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0269	0.0368	0.0306	0.0262	0.0249	0.0281	0.0249	0.0234	0.0278
Barium - Total	mg/L	0.0343	0.0527	0.0483	0.0415	0.0389	0.0442	0.0419	0.0415	0.118
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.56	6.63	6.31	6.29	6.20	6.11	5.94	5.63	6.00
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.91	3.13	3.03	3.03	2.99	2.93	2.87	2.71	2.87
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	19.3	29.5	28.3	28.2	27.8	27.3	26.6	25.2	26.8
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Chrysene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Fluorene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	0.050 J	< 0.050 U	< 0.050 UB	< 0.057 UB
Phenanthrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
Pyrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	2.0 J	< 5.0 U	< 5.0 U	3.3 J	< 5.0 U	< 5.0 U	2.4 J	< 5.0 U	2.2 J
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		10/5/2013	10/6/2013	10/7/2013	10/8/2013	10/9/2013	10/10/2013	10/11/2013	10/12/2013	10/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)100513	WS-018(SURFACE)100613	WS-018(SURFACE)100713	WS-018(SURFACE)100813	WS-018(SURFACE)100913	WS-018(SURFACE)101013	WS-018(SURFACE)101113	WS-018(SURFACE)101213	WS-018(SURFACE)101313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)101413	WS-018(SURFACE)101513	WS-018(SURFACE)101613	WS-018(SURFACE)101713	WS-018(SURFACE)101813	WS-018(SURFACE)101913	WS-018(SURFACE)102013	WS-018(SURFACE)102113	WS-018(SURFACE)102213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	83	82	84	85	89	88	89	85	84
Dissolved Oxygen	mg/l	7.08	5.11	4.68	10.9	4.15	4.58	4.06	5.02	4.51
pH	SU	9.17	7.55	7.19	9.53	7.31	7.74	7.1	7.31	5.22
Temperature	deg C	19.4	21.81	18.39	19.18	14.81	14.9	11.28	14.45	13.95
Turbidity	NTU	21.2	9.1	10.1	14.5	11	9.5	10.7	13.5	40.3
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0070 J	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	0.0083 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0074 J	0.0108 J	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0227	0.0280	0.0311	0.0214	0.0274	0.0249	0.0226	0.0205	0.0302
Barium - Total	mg/L	0.0372	0.0527	0.0491	0.0426	0.104	0.0487	0.0361	0.0372	0.0401
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.55	5.76	5.59	5.53	5.52	5.40	5.14	5.05	5.02
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.70	2.80	2.68	2.68	2.70	2.62	2.55	2.49	2.48
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	0.0020 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	25.0	25.9	25.0	24.8	24.9	24.3	23.3	22.9	22.7
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.085 UB	< 0.051 U	< 0.053 UB	< 0.051 U	0.078	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.049 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	2.5 J	3.3 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013	10/19/2013	10/20/2013	10/21/2013	10/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)101413	WS-018(SURFACE)101513	WS-018(SURFACE)101613	WS-018(SURFACE)101713	WS-018(SURFACE)101813	WS-018(SURFACE)101913	WS-018(SURFACE)102013	WS-018(SURFACE)102113	WS-018(SURFACE)102213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)102313	WS-018(SURFACE)102413	WS-018(SURFACE)102513	WS-018(SURFACE)102613	WS-018(SURFACE)102713	WS-018(SURFACE)102813	WS-018(SURFACE)102913	WS-018(SURFACE)103013	WS-018(SURFACE)103113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	86	92	85	84	87	84	81	82	81
Dissolved Oxygen	mg/l	4.47	4.74	4.01	6.77	2.86	3.7	4.17	4.12	8.71
pH	SU	4.79	6.9	6.86	7.18	7.05	7.03	7.29	6.6	7.91
Temperature	deg C	13	12.99	11.95	11.63	13.97	15.04	15.07	16.52	18.61
Turbidity	NTU	31.4	60.2	49.7	17.4	16.2	12.1	15.5	10.1	23.8
Metals										
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0205	0.0206	0.0198	0.0197	0.0295	0.0211	0.0221	0.0205	0.0173
Barium - Total	mg/L	0.0326	0.0329	0.0313	0.0312	0.0430	0.0330	0.0335	0.0344	0.0427
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	4.91	4.61	4.81	4.87	4.71	4.77	4.78	4.59	4.48
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	0.0047 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0047 J
Magnesium - Total	mg/l	2.42	2.28	2.41	2.38	2.35	2.41	2.38	2.30	2.26
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/L	< 0.0100 U	< 0.0100 U	0.0016 J	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other										
Hardness (as CaCO3)	mg/l	22.2	20.9	21.9	21.9	21.4	21.8	21.7	20.9	20.5
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	2.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018	WS-018
Sample Date		10/23/2013	10/24/2013	10/25/2013	10/26/2013	10/27/2013	10/28/2013	10/29/2013	10/30/2013	10/31/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-018(SURFACE)102313	WS-018(SURFACE)102413	WS-018(SURFACE)102513	WS-018(SURFACE)102613	WS-018(SURFACE)102713	WS-018(SURFACE)102813	WS-018(SURFACE)102913	WS-018(SURFACE)103013	WS-018(SURFACE)103113
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-019	WS-019	WS-019	WS-019	WS-019	WS-019	WS-019	WS-019	WS-019
Sample Date		4/17/2013	4/22/2013	4/24/2013	4/29/2013	5/6/2013	5/13/2013	5/20/2013	5/29/2013	6/3/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-019(SURFACE)041713	WS-019(SURFACE)042213	WS-019(SURFACE)042413	WS-019(SURFACE)042913	WS-019(SURFACE)050613	WS-019(SURFACE)051313	WS-019(SURFACE)052013	WS-019(SURFACE)052913	WS-019(SURFACE)060313
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	116	306	268	253	61	64	69	64	53
Dissolved Oxygen	mg/l	0.09	0	0	0	1.9	1.1	0.07	1.21	1.85
pH	SU	6.68	6.42	6.18	6.53	5.32	6.4	6.5	6.62	6.65
Temperature	deg C	25.13	14.67	13.21	16.62	13.77	17.89	24.36	23.92	20.05
Turbidity	NTU	NA	275	421	600	800	0	800	800	800
Metals										
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	0.0091 J	0.0153 J	0.0083 J	0.0273	0.0138 J	0.0231	0.0503	0.0563	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.151	0.360	0.219	0.834	0.324	0.914	2.55	2.05	0.0957
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	0.00045 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0027 J	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	11.8	14.6	10.2	20.9	10.2	13.4	29.3	23.6	4.93
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0126 J	0.0230	0.0203	0.0354	0.0417	0.0997	0.250	0.202	0.0058 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0086 J	0.0260	0.0186	0.0817	0.0751	0.117	0.360	0.287	0.0051 J
Magnesium - Total	mg/l	3.92	5.36	4.77	6.79	6.43	12.9	31.4	25.8	2.11
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.000080 J	< 0.00020 U	0.00021	0.0012	0.00011 J	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.010 J	0.0204	0.0185	0.0465	0.0330	0.0814	0.224	0.183	0.0063 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0106 J	0.0107 J	0.0207	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0162	0.0342	0.0303	0.0564	0.0603	0.151	0.376	0.302	0.0099
Other										
Hardness (as CaCO3)	mg/l	45.6	58.5	45.1	80.1	51.9	86.8	203	165	21.0
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	0.041 J	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.015 J	0.10 J	0.23 J	0.014 J
2-Methylnaphthalene - Total	ug/l	0.033 J	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.021 J	0.12 J	0.33 J	0.016 J
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	< 0.057 UJ	0.027 J	< 0.052 UJ
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	< 0.057 UJ	0.017 J	< 0.052 UJ
Anthracene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	< 0.057 UJ	0.054 J	< 0.052 UJ
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	< 0.057 UJ	0.053 J	< 0.052 UJ
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.017 J	< 0.057 UJ	0.059 J	< 0.052 UJ
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.013 J	0.021 J	0.15 J	< 0.052 UJ
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	0.013 J	0.075 J	< 0.052 UJ
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	< 0.057 UJ	0.047 J	< 0.052 UJ
Chrysene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.016 J	0.028 J	0.18 J	< 0.052 UJ
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	< 0.057 UJ	0.017 J	< 0.052 UJ
Fluoranthene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.013 J	0.015 J	0.12 J	< 0.052 UJ
Fluorene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.014 J	0.023 J	0.079 J	< 0.052 UJ
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	< 0.057 UJ	0.070 J	< 0.052 UJ
Naphthalene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	0.077 J	< 0.054 UJ	0.084 J	0.086 J	< 0.052 UJ
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	< 0.054 UJ	0.039 J	0.23 J	< 0.052 UJ
Pyrene - Total	ug/l	< 0.053 U	< 0.051 UJ	< 0.052 UJ	< 0.051 UJ	< 0.065 UJ	0.027 J	0.021 J	0.15 J	< 0.052 UJ
TPH										
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	1.4 J	< 5.0 U	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs										
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-019	WS-019	WS-019	WS-019	WS-019	WS-019	WS-019	WS-019	WS-019
Sample Date		4/17/2013	4/22/2013	4/24/2013	4/29/2013	5/6/2013	5/13/2013	5/20/2013	5/29/2013	6/3/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-019(SURFACE)041713	WS-019(SURFACE)042213	WS-019(SURFACE)042413	WS-019(SURFACE)042913	WS-019(SURFACE)050613	WS-019(SURFACE)051313	WS-019(SURFACE)052013	WS-019(SURFACE)052913	WS-019(SURFACE)060313
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**									
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	1.4 J	< 5.0 U	< 5.0 U	1.8 J	< 5.0 U	< 5.0 U	1.2 J	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	4.6 J	5.8	3.1 J	5.7	6.5	5.5	6.5	6.2	3.1 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	9.2	12	12	0.7
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	0.2 J	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-020	WS-021	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/16/2013	4/28/2013	3/29/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-020-001(SURFACE)041613	WS-021(SURFACE)042813	KLL329BKG1	RRS330BKG1	RRS331BKG1	RRS41BKG1	RRS42BKG1	RRS43BKG1	RRS44BKG1	WS-BKG-001-04052013(SURFACE)	WS-BKG-001-04062013(SURFACE)	WS-BKG-001-04072013(SURFACE)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
FIELD													
Conductivity	uS/cm	NA	191	NA	NA	NA	NA	NA	NA	NA	76.9	71	77
Dissolved Oxygen	mg/l	NA	6.33	NA	NA	NA	NA	NA	NA	NA	12.04 *	7.66	4.59
pH	SU	NA	6.95	NA	NA	NA	NA	NA	NA	NA	6	7.07	6.22
Temperature	deg C	NA	23.08	NA	NA	NA	NA	NA	NA	NA	13.2	13.45	15.4
Turbidity	NTU	NA	51	NA	NA	NA	NA	NA	NA	NA	8	3.7	4.5
Metals													
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	NA	< 0.0200 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	NA	NA	< 0.0100 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	NA	0.0322	0.0401	0.0247	0.0274	0.0292	NA	NA	0.0262	0.0236	0.0275	0.0315
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	NA	2.98	NA	NA	NA	NA	NA	NA	NA	5.21	5.64	6.11
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	NA	0.0013 J	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	0.0014 J	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	NA	< 0.0150 U	0.022	< 0.0050 U	< 0.0050 U	< 0.0050 U	NA	NA	< 0.0050 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	NA	1.56	NA	NA	NA	NA	NA	NA	NA	1.72	1.78	1.91
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	NA	0.0020 J	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0100 U	0.0013 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	NA	< 0.0200 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	NA	NA	< 0.0150 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	NA	< 0.0050 U	< 0.0070 U	< 0.0070 U	< 0.0070 U	< 0.0070 U	NA	NA	< 0.0070 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	NA	0.0032 J	NA	NA	NA	NA	NA	NA	< 0.0100 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other													
Hardness (as CaCO3)	mg/l	NA	13.9	NA	NA	NA	NA	NA	NA	NA	20.1	21.4	23.1
PAHs-SIM													
1-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 U	NA	NA	NA	NA	NA	NA	NA	< 0.051 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 UJ	< 0.051 U	NA	NA	NA	NA	NA	NA	NA	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	0.012 J	< 0.052 U
Fluorene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
Naphthalene - Total	ug/l	0.25 J	< 0.051 U	< 0.50 U	< 0.50 U	< 0.53 U	< 0.55 U	< 0.56 U	< 0.54 U	< 0.54 U	< 0.051 U	< 0.052 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 UJ	< 0.051 U	< 0.50 U	< 0.50 U	< 0.53 U	< 0.55 U	< 0.56 U	< 0.54 U	< 0.54 U	< 0.051 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	0.011 J	< 0.051 U	< 0.10 U	< 0.10 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.051 U	< 0.052 U	< 0.052 U
TPH													
Diesel C10-C28	ug/L	NA	NA	< 500 U	< 500 U	< 500 U	< 560 U	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	< 200 U	< 200 U	< 200 U	< 200 U	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	< 500 U	< 500 U	< 500 U	< 560 U	NA	NA	NA	NA	NA	NA
VOCs													
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-020	WS-021	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/16/2013	4/28/2013	3/29/2013	3/30/2013	3/31/2013	4/1/2013	4/2/2013	4/3/2013	4/4/2013	4/5/2013	4/6/2013	4/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-020-001(SURFACE)041613	WS-021(SURFACE)042813	KLL329BKG1	RRS330BKG1	RRS331BKG1	RRS41BKG1	RRS42BKG1	RRS43BKG1	RRS44BKG1	WS-BKG-001-04052013(SURFACE)	WS-BKG-001-04062013(SURFACE)	WS-BKG-001-04072013(SURFACE)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	20	< 5.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	NA	NA	NA	NA	NA	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/8/2013	4/9/2013	4/9/2013	4/10/2013	4/11/2013	4/12/2013	4/13/2013	4/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)040813	WS-BKG-001(SURFACE)040913	WS-DUP3-040913	WS-BKG-001(SURFACE)041013	WS-BKG-001(SURFACE)041113	WS-BKG-001(SURFACE)041213	WS-BKG-001(SURFACE)041313	WS-BKG-001(SURFACE)041413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	74	71	NA	17	58	61	67	71
Dissolved Oxygen	mg/l	3.57	3.29	NA	3.08	5.46	5.12	4.25	3.08
pH	SU	6.26	5.69	NA	6.17	6.37	6.26	6.54	6.31
Temperature	deg C	16.22	17.6	NA	20.41	12.02	11.86	14.33	15.77
Turbidity	NTU	3.2	1.8	NA	3	6.2	2.7	2.7	0.9
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0346	0.0380	0.0381	0.0401	0.0301	0.0294	0.0294	0.0324
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 UB	< 0.0050 UB	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.60	5.83	5.78	6.61	6.07	5.97	5.95	6.06
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0012 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.01	1.85	1.83	1.89	1.93 J	1.91	1.83	1.86 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	< 0.0100 U	0.0022 J	0.0022 J	< 0.0100 UB	0.0015 J	0.0021 J	0.0020 J	0.0021 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0013 J	0.0016 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other									
Hardness (as CaCO3)	mg/l	24.8	22.2	22.0	24.3	23.1	22.8	22.4	22.8
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 UJ	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 UJ	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 UJ	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 UJ	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 UJ	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	0.011 J	< 0.051 U	< 0.051 U	0.011 J	< 0.052 U	< 0.054 U	0.011 J	< 0.051 U
Fluorene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 UJ	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.054 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.054 U	< 0.051 U	< 0.051 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	2.5 J	< 5.0 U	NA	< 5.0 U	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Location		WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/8/2013	4/9/2013	4/9/2013	4/10/2013	4/11/2013	4/12/2013	4/13/2013	4/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)040813	WS-BKG-001(SURFACE)040913	WS-DUP3-040913	WS-BKG-001(SURFACE)041013	WS-BKG-001(SURFACE)041113	WS-BKG-001(SURFACE)041213	WS-BKG-001(SURFACE)041313	WS-BKG-001(SURFACE)041413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/19/2013	4/20/2013	4/21/2013	4/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)041513	WS-BKG-001(SURFACE)041613	WS-001-BKG(SURFACE)041713	WS-BKG-001(SURFACE)041813	WS-BKG-001(SURFACE)041913	WS-BKG-001(SURFACE)042013	WS-BKG-001(SURFACE)042113	WS-BKG-001(SURFACE)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	111	98	84	76	63	74	78	269
Dissolved Oxygen	mg/l	10.3 *	5.35	5.39	2.93	5.53	3.24	3.1	5.32
pH	SU	5.51	5.14	6.05	6.61	5.94	6.49	6.61	6.19
Temperature	deg C	16.16	18.68	21.58	21.94	13.2	14.14	15.92	17.45
Turbidity	NTU	0	0.4	2	70.9	5.47	0	0	0
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0384	0.0392	0.0415	0.0381	0.0321	0.0333 J	0.0396	0.0378
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.99	7.07	7.90	8.00	5.72	5.57 J	6.20	6.98
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0016 J	0.0016 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.95	2.00	2.23	2.20	1.87	1.78	1.91	1.97
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0017 J	0.0038 J	0.0022 J	0.0030 J	0.0022 J	0.0020 J	0.0020 J	< 0.0100 U
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0014 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other									
Hardness (as CaCO3)	mg/l	23.0	25.9	28.9	29.0	22.0	21.2	23.3	25.5
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	0.012 J	< 0.050 U	0.014 J	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.051 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	NA	NA	NA	NA	NA	< 5.0 U
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/15/2013	4/16/2013	4/17/2013	4/18/2013	4/19/2013	4/20/2013	4/21/2013	4/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)041513	WS-BKG-001(SURFACE)041613	WS-001-BKG(SURFACE)041713	WS-BKG-001(SURFACE)041813	WS-BKG-001(SURFACE)041913	WS-BKG-001(SURFACE)042013	WS-BKG-001(SURFACE)042113	WS-BKG-001(SURFACE)042213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/23/2013	4/24/2013	4/25/2013	4/26/2013	4/27/2013	4/28/2013	4/29/2013	4/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)042313	WS-BKG-001(SURFACE)042413	WS-BKG-001(SURFACE)042513	WS-BKG-001(SURFACE)042613	WS-BKG-001(SURFACE)042713	WS-BKG-001(SURFACE)042813	WS-BKG-001(SURFACE)042913	WS-BKG-001(SURFACE)043013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	306	299	262	259	238	255	247	94
Dissolved Oxygen	mg/l	2.86	4.32	4.97	3.3	5.74	3.11	4.01	3.55
pH	SU	5.88	5.9	6.4	5.77	6.58	6	5.77	7.07
Temperature	deg C	17.65	15.36	15.05	15.87	16.12	16.66	17.53	20.78
Turbidity	NTU	0	0	0	0	0	0	0	0
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0362	0.0340	0.0373	0.0323	0.0332	0.0384	0.0384	0.0388
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	7.17 J	5.18	7.28	5.83	5.91	5.53	6.76	7.75
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	0.0013 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.06	1.58	2.07	1.85	1.67	1.73	2.00	2.05
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0029 J	0.0021 J	0.0022 J	0.0044 J	0.0015 J	0.0015 J	0.0022 J	0.0027 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0015 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Other									
Hardness (as CaCO3)	mg/l	26.4	19.5	26.7	22.2	21.6	20.9	25.1	27.8
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Fluoranthene - Total	ug/l	0.012 J	0.012 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 UJ	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
Pyrene - Total	ug/l	< 0.052 U	0.033 J	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.053 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	< 5.0 U	NA	NA	NA	NA	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001	WS-BKG-001
Sample Date		4/23/2013	4/24/2013	4/25/2013	4/26/2013	4/27/2013	4/28/2013	4/29/2013	4/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)042313	WS-BKG-001(SURFACE)042413	WS-BKG-001(SURFACE)042513	WS-BKG-001(SURFACE)042613	WS-BKG-001(SURFACE)042713	WS-BKG-001(SURFACE)042813	WS-BKG-001(SURFACE)042913	WS-BKG-001(SURFACE)043013
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-001	WS-BKG-001	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/1/2013	5/3/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/13/2013	5/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)050113	WS-BKG-001(SURFACE)050313	WS-BKG-002(SURFACE)050913	WS-BKG-002(SURFACE)051013	WS-BKG-002(SURFACE)051113	WS-BKG-002(SURFACE)051213	WS-BKG-002(SURFACE)051313	WS-BKG-002(SURFACE)051413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	91	NA	133	150	137	133	141	127
Dissolved Oxygen	mg/l	1.86	NA	9.12	5.41	5.39	4.98	8.19	3.45
pH	SU	6.85	NA	6.69	6.27	6.97	6.03	6.86	6.13
Temperature	deg C	21.18	NA	21.25	21.94	20.7	17.25	18.94	19.71
Turbidity	NTU	121	NA	190	103	111	143	180	183
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0069 J	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0465	0.0775	0.0423	0.0535	0.0366	0.0413	0.0571	0.0578
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	10.0	7.41	7.23	9.73	8.98	8.53	8.77	9.42
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	< 0.0150 U	0.0099 J	0.0038 J	0.0046 J	0.0023 J	0.0020 J	0.0063 J	0.0058 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	0.0076 J	0.0082 J	0.0074 J	< 0.0150 U	< 0.0150 U	0.0221	0.0205
Magnesium - Total	mg/l	2.42	2.18	3.46	4.30	3.95	3.75	3.82	4.08 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0038 J	0.0078 J	0.0051 J	0.0053 J	0.0041 J	0.0039 J	0.0056 J	0.0063 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	< 0.0050 U	0.0127	0.0072	0.0065	0.0044 J	0.0047 J	0.0110	0.0099
Other									
Hardness (as CaCO3)	mg/l	35.0	27.5	32.3	42.0	38.7	36.8	37.6	40.3
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.056 U	0.013 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.056 U	0.036 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.056 U	0.027 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	< 0.056 U	0.041 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	< 0.056 U	0.049 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.056 U	0.020 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	0.039 J	< 0.053 U
Phenanthrene - Total	ug/l	< 0.056 U	< 0.062 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	< 0.056 U	0.041 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.053 U	< 0.051 U	< 0.053 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 UB	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-001	WS-BKG-001	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/1/2013	5/3/2013	5/9/2013	5/10/2013	5/11/2013	5/12/2013	5/13/2013	5/14/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-001(SURFACE)050113	WS-BKG-001(SURFACE)050313	WS-BKG-002(SURFACE)050913	WS-BKG-002(SURFACE)051013	WS-BKG-002(SURFACE)051113	WS-BKG-002(SURFACE)051213	WS-BKG-002(SURFACE)051313	WS-BKG-002(SURFACE)051413
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	3.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.3 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/15/2013	5/16/2013	5/17/2013	5/18/2013	5/19/2013	5/20/2013	5/21/2013	5/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)051513	WS-BKG-002(SURFACE)051613	WS-BKG-002(SURFACE)051713	WS-BKG-002(SURFACE)051813	WS-BKG-002(SURFACE)051913	WS-BKG-002(SURFACE)052013	WS-BKG-002(SURFACE)052113	WS-BKG-002(SURFACE)052213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	125	118	121	126	124	133	58	60
Dissolved Oxygen	mg/l	2.98	4.38	5.18	3.44	2.99	1.96	5.41	5.73
pH	SU	6.92	6.69	6.71	6.4	6.18	6.72	6.26	6.81
Temperature	deg C	21.19	20.63	22.39	23.2	23.21	24.78	21.32	20.7
Turbidity	NTU	179	176	153	81	132	171	176	48.5
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0678	0.0661	0.0517	0.0472	0.0440	0.0563	0.0501	0.0378
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	9.27	9.68	8.45	8.30	8.75	9.65	3.66	4.65
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0087 J	0.0071 J	0.0045 J	0.0051 J	0.0019 J	0.0049 J	0.0045 J	0.0016 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	0.0065 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	4.12	3.85	3.37	3.48	3.62	3.92	1.66	1.66 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0068 J	0.0052 J	0.0042 J	0.0042 J	0.0045 J	0.0048 J	0.0046 J	0.0029 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	0.0013 J	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0140	0.0115	0.0066	0.0074	0.0039 J	0.0074	0.0076	0.0030 J
Other									
Hardness (as CaCO3)	mg/l	40.1	40.0	35.0	35.1	36.8	40.3	16.0	18.5
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.062 U	0.011 J	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Fluorene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.13 UB	0.077	< 0.052 U	< 0.051 U	< 0.052 U	0.047 J	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.062 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.050 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 U	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/15/2013	5/16/2013	5/17/2013	5/18/2013	5/19/2013	5/20/2013	5/21/2013	5/22/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)051513	WS-BKG-002(SURFACE)051613	WS-BKG-002(SURFACE)051713	WS-BKG-002(SURFACE)051813	WS-BKG-002(SURFACE)051913	WS-BKG-002(SURFACE)052013	WS-BKG-002(SURFACE)052113	WS-BKG-002(SURFACE)052213
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.0 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.8	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

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Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/23/2013	5/24/2013	5/25/2013	5/26/2013	5/27/2013	5/28/2013	5/29/2013	5/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)052313	WS-BKG-002(SURFACE)052413	WS-BKG-002(SURFACE)052513	WS-BKG-002(SURFACE)052613	WS-BKG-002(SURFACE)052713	WS-BKG-002(SURFACE)052813	WS-002-BKG(SURFACE)052913	WS-BKG-002(SURFACE)053013
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	73	83	81	121	100	111	93	138
Dissolved Oxygen	mg/l	5.24	4.17	4.88	4.45	4.3	3.02	2.61	2.34
pH	SU	7.05	7	6.88	7.02	7.03	6.84	6.73	6.88
Temperature	deg C	22.42	20.93	20.5	21.93	24.36	23.7	25.15	25.93
Turbidity	NTU	58.6	73.4	54.9	39.9	94.2	39.9	534	129
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0400 J	0.0445	0.0424	0.0393	0.0366	0.0350	0.0375	0.0412
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.23	5.92	6.38	6.78	6.90	7.55	8.29	8.90
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0023 J	0.0026 J	0.0026 J	0.0024 J	0.0021 J	0.0022 J	0.0020 J	0.0025 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0091 J	< 0.0150 U	0.0055 J	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.18	2.46 J	2.78	2.91	3.08	3.36	3.62	3.64 J
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0038 J	0.0037 J	0.0033 J	0.0036 J	0.0038 J	0.0036 J	0.0031 J	0.0033 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0041 J	0.0051	0.0047 J	0.0038 J	0.0040 J	0.0029 J	0.0031 J	0.0043 J
Other									
Hardness (as CaCO3)	mg/l	22.0	24.9	27.4	28.9	29.9	32.7	35.6	37.2
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.054 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.057 U	< 0.053 U	< 0.053 U	< 0.052 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	NA	< 5.0 U	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

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Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/23/2013	5/24/2013	5/25/2013	5/26/2013	5/27/2013	5/28/2013	5/29/2013	5/30/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)052313	WS-BKG-002(SURFACE)052413	WS-BKG-002(SURFACE)052513	WS-BKG-002(SURFACE)052613	WS-BKG-002(SURFACE)052713	WS-BKG-002(SURFACE)052813	WS-002-BKG(SURFACE)052913	WS-BKG-002(SURFACE)053013
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

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Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/31/2013	6/1/2013	6/2/2013	6/3/2013	6/4/2013	6/5/2013	6/6/2013	6/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)053113	WS-BKG-002(SURFACE)060113	WS-BKG-002(SURFACE)060213	WS-BKG-002(SURFACE)060313	WS-BKG-002(SURFACE)060413	WS-BKG-002(SURFACE)060513	WS-BKG-002(SURFACE)060613	WS-BKG-002(SURFACE)060713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	50	50	56	57	65	64	85	83
Dissolved Oxygen	mg/l	5.2	5.33	5.88	5.89	5.93	4.86	5.36	5.08
pH	SU	6.58	7.29	7.14	7.02	7.25	8.44	6.17	6.69
Temperature	deg C	23.81	24.04	21.92	20.96	21.54	22.89	24.42	23.69
Turbidity	NTU	50.4	220	49.1	37.7	41.5	41.2	35.9	122.2
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium - Total	mg/L	0.0369	0.0421	0.0345	0.0328	0.0352	0.0357	0.0353	0.0362
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	3.62	3.83	4.25	4.37	4.77	4.82	5.35	6.57
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium - Total	mg/L	0.0015 J	0.0032 J	0.0017 J	0.0014 J	0.0015 J	0.0019 J	0.0021 J	0.0017 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.32	1.62	1.58	1.76	1.94	2.06	2.24	2.77
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 UB
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Nickel - Total	mg/L	0.0029 J	0.0029 J	0.0025 J	0.0022 J	0.0024 J	0.0031 J	0.0029 J	0.0026 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium - Total	mg/L	0.0024 J	0.0059	0.0025 J	0.0025 J	0.0030 J	0.0029 J	0.0032 J	0.0030 J
Other									
Hardness (as CaCO3)	mg/l	14.5	16.2	17.1	18.2	19.9	20.5	22.6	27.8
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.056 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.052 U	< 0.056 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	< 5.0 U	NA	NA	NA	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		5/31/2013	6/1/2013	6/2/2013	6/3/2013	6/4/2013	6/5/2013	6/6/2013	6/7/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)053113	WS-BKG-002(SURFACE)060113	WS-BKG-002(SURFACE)060213	WS-BKG-002(SURFACE)060313	WS-BKG-002(SURFACE)060413	WS-BKG-002(SURFACE)060513	WS-BKG-002(SURFACE)060613	WS-BKG-002(SURFACE)060713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		6/8/2013	6/9/2013	6/10/2013	6/11/2013	6/12/2013	8/11/2013	8/12/2013	8/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)060813	WS-BKG-002(SURFACE)060913	WS-BKG-002(SURFACE)061013	WS-BKG-002(SURFACE)061113	WS-BKG-002(SURFACE)061213	WS-BKG-002(SURFACE)081113	WS-BKG-002(SURFACE)081213	WS-BKG-002(SURFACE)081313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**								
FIELD									
Conductivity	uS/cm	93	102	111	125	179	NA	49	53
Dissolved Oxygen	mg/l	4.46	4.1	3.31	2.84	2.29	NA	7.6	6.58
pH	SU	6.46	6.32	5.95	6.03	6.52	NA	6.44	6.69
Temperature	deg C	21.26	21.02	20.55	22.57	26.68	NA	27.07	27.06
Turbidity	NTU	35.6	29.8	32.6	28.9	50.6	NA	47.1	39.7
Metals									
Arsenic - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	NA	NA	NA	NA	NA	0.0226	0.0243	0.0216
Barium - Total	mg/L	0.0389	0.0392	0.0391	0.0393	0.0424	0.0347	0.0358	0.0338
Cadmium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.13	6.39	6.33	7.52	8.90	4.76	5.57	4.61
Chromium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0014 J	0.0014 J	0.0016 J	0.0016 J	0.0016 J	0.0031 J	0.0021 J	0.0024 J
Lead - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	0.0107 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	2.73	2.90	2.84	2.96	3.78	1.66	1.96	1.53
Mercury - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	0.00010 J	< 0.00020 U	0.00018 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	NA	NA	NA	NA	NA	0.0015 J	0.0016 J	0.0026 J
Nickel - Total	mg/L	0.0033 J	0.0036 J	0.0028 J	0.0033 J	0.0032 J	0.0021 J	0.0030 J	0.0030 J
Selenium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0037 J	0.0036 J	0.0030 J	0.0025 J	0.0039 J	0.0038 J	0.0033 J	0.0032 J
Other									
Hardness (as CaCO3)	mg/l	26.6	27.9	27.5	31.0	37.8	18.7	22.0	17.8
PAHs-SIM									
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Chrysene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Fluorene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
Pyrene - Total	ug/l	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.052 U
TPH									
Diesel C10-C28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/l	NA	NA	NA	NA	NA	< 5.0 U	1.9 J	NA
TPH C28-C35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		6/8/2013	6/9/2013	6/10/2013	6/11/2013	6/12/2013	8/11/2013	8/12/2013	8/13/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)060813	WS-BKG-002(SURFACE)060913	WS-BKG-002(SURFACE)061013	WS-BKG-002(SURFACE)061113	WS-BKG-002(SURFACE)061213	WS-BKG-002(SURFACE)081113	WS-BKG-002(SURFACE)081213	WS-BKG-002(SURFACE)081313
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**								
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.4 J	< 5.0 U	3.2 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UB	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		8/14/2013	8/15/2013	8/16/2013	8/17/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)081413	WS-BKG-002(SURFACE)081513	WS-BKG-002(SURFACE)081613	WS-BKG-002(SURFACE)081713
Validation Level		Tier II	Tier II	Tier II	Tier II
Chemical	**Units**				
FIELD					
Conductivity	uS/cm	60	56	69	66
Dissolved Oxygen	mg/l	7.15	7.9	7.07	7.86
pH	SU	6.61	6.67	6.91	7.05
Temperature	deg C	24.11	22.08	20.87	23.56
Turbidity	NTU	48.1	44.4	45.3	31.1
Metals					
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	0.0070 J
Arsenic - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0236	0.0247	0.0266	0.0245
Barium - Total	mg/L	0.0353	0.0333	0.0381	0.0320
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	5.41	4.99	5.78	5.53
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/L	0.0032 J	0.0026 J	0.0031 J	0.0019 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/L	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	1.87	1.84	2.28	2.16
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0031 J	0.0020 J	< 0.0100 U	0.0021 J
Nickel - Total	mg/L	0.0029 J	0.0029 J	0.0028 J	0.0017 J
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/L	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/L	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/L	0.0035 J	0.0034 J	0.0037 J	0.0021 J
Other					
Hardness (as CaCO3)	mg/l	21.2	20.0	23.8	22.7
PAHs-SIM					
1-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
2-Methylnaphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Acenaphthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Acenaphthylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(a)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(a)Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Chrysene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Fluoranthene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Fluorene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Naphthalene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Phenanthrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
Pyrene - Total	ug/l	< 0.054 U	< 0.053 U	< 0.055 U	< 0.055 U
TPH					
Diesel C10-C28	ug/L	NA	NA	NA	NA
Gasoline C6-C10	ug/L	NA	NA	NA	NA
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB
TPH C28-C35	ug/L	NA	NA	NA	NA
VOCs					
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-BKG-002	WS-BKG-002	WS-BKG-002	WS-BKG-002
Sample Date		8/14/2013	8/15/2013	8/16/2013	8/17/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft
Sample ID		WS-BKG-002(SURFACE)081413	WS-BKG-002(SURFACE)081513	WS-BKG-002(SURFACE)081613	WS-BKG-002(SURFACE)081713
Validation Level		Tier II	Tier II	Tier II	Tier II
Chemical	**Units**				
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethene, Total	ug/l	NA	NA	NA	NA
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Disulfide	ug/l	NA	NA	NA	NA
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl N-Butyl Ketone	ug/l	NA	NA	NA	NA
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Naphthalene	ug/l	NA	NA	NA	NA
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
sec-Butylbenzene	ug/l	NA	NA	NA	NA
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Appendix F - Analytical Data Tables
Daily Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

1. Sample counts presented in the summary do not include field duplicates
2. PAHs for WS-011(1.5-2.0)072513 and WS-011(5.0-5.5)072513 were not analyzed due to a labeling error; therefore, analytical data is unavailable.
3. Locations and analytes sampled since July 15, 2013, are based on the Surface Water Sampling and Analysis Plan approved by the ADEQ on July 12, 2013. Oil & Grease at all locations and the deeper depth intervals for WS-010, WS-011, WS-012, and WS-014 were added to the program on July 23, 2013, per ADEQ request.

Acronyms and Abbreviations:
Deg C = degrees Celsius
DRY = insufficient water at location, therefore no samples were collected.
ft = feet
mg/l = milligrams per liter
NA = not analyzed
NS = not sampled
NTU = Nephelometric Turbidity Units
PAHs = polycyclic aromatic hydrocarbons
SU = standard units
SIM = selective ion monitoring
TPH = total petroleum hydrocarbons
ug/l = micrograms per liter
uS/cm = microSiemens per centimeter
VOCs = volatile organic compounds
X = sample was collected from the specified location on the specified date.

Qualifier Definitions:
* = Dissolved oxygen concentrations greater 10 mg/L potentially indicate field instrument calibration error.
< = less than the limit of qauntitation
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
D = Compound quantitated on a diluted sample
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
R = Sample result rejected.
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

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Weekly Surface Water Sampling
Tables

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Summary

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Sampling Week	WS-001	WS-004	WS-006	WS-007	WS-008	WS-009	WS-010		WS-011		WS-012		WS-014		WS-015		WS-020	WS-021
	Deep	Deep	Deep	Deep	Shallow	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Shallow	Shallow
11/04/2013 through 11/10/2013	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11/11/2013 through 11/17/2013	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
11/18/2013 through 11/24/2013	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11/25/2013 through 12/01/2013	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
12/02/2013 through 12/08/2013	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
12/09/2013 through 12/15/2013	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12/16/2013 through 12/22/2013	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12/23/2013 through 12/29/2013	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
12/30/2013 through 01/05/2014	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
01/06/2014 through 01/12/2014	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
01/13/2014 through 01/19/2014	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
01/20/2014 through 01/26/2014	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
01/27/2014 through 02/02/2014	X	X	X	X	DRY	X	X	X	X	X	X	X	X	X	X	X	X	X
02/03/2014 through 02/09/2014	X	X	NS	X	X	X	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	X	X
Total Samples	14	14	13	14	6	14	13	13	13	13	13	13	13	13	13	13	14	14

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001	WS-001
Sample Date		11/7/2013	11/13/2013	11/20/2013	11/26/2013	12/3/2013	12/11/2013	12/18/2013	12/27/2013	1/2/2014	1/11/2014	1/15/2014
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)110713	WS-001(0.5-1.0)111313	WS-001(0.5-1.0)112013	WS-001(0.5-1.0)112613	WS-001(0.5-1.0)120313	WS-001(0.5-1.0)121113	WS-001(0.5-1.0)121813	WS-001(0.5-1.0)122713	WS-001(0.5-1.0)010214	WS-001(0.5-1.0)011114	WS-001(0.5-1.0)011514
Validation Level		Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	77	79	78	79	74	92	75	48	62	61	46
Dissolved Oxygen	mg/l	8.41	8.87	7.77	6.21	8.05	15.56	11.78	7.45	10.89	11.39	6.16
pH	SU	7.33	6.02	6.24	6.57	7.02	6.93	6.96	6.85	5.96	6.01	6.1
Temperature	deg C	14.83	9.11	11.5	5.74	11.11	6.68	8.47	6.5	4.74	4.87	7.59
Turbidity	NTU	26.1	43.2	20.8	20.6	27.6	13.6	27.5	36.3	38.2	22.9	54
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 UB	< 0.051 U	0.021 J	< 0.053 U	0.013 J	0.019 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 UB	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	0.022 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 UB	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	0.011 J	< 0.051 U	0.017 J	< 0.053 U	< 0.051 U	0.014 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 UB	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	0.017 J
Fluoranthene - Total	ug/l	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	0.024 J	0.011 J	0.016 J	0.017 J
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 UB	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	0.022 J
Naphthalene - Total	ug/l	< 0.052 U	0.033 J	0.035 J	< 0.051 U	0.069	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 UB	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	0.011 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.050 U	< 0.051 U	0.020 J	< 0.053 U	0.011 J	0.017 J

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
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Location		WS-001	WS-001	WS-001	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-004
Sample Date		1/22/2014	1/29/2014	2/5/2014	11/6/2013	11/13/2013	11/20/2013	11/26/2013	12/3/2013	12/11/2013	12/18/2013	12/27/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-001(0.5-1.0)012214	WS-001(0.5-1.0)012914	WS-001(0.5-1.0)020514	WS-004(0.5-1.0)110613	WS-004(0.5-1.0)111313	WS-004(0.5-1.0)112013	WS-004(0.5-1.0)112613	WS-004(0.5-1.0)120313	WS-004(0.5-1.0)121113	WS-004(0.5-1.0)121813	WS-004(0.5-1.0)122713
Validation Level		Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	47	46	45	78	71	71	77	68	106	177	41
Dissolved Oxygen	mg/l	13.55	13.5	12.46	5.01	9.71	8.77	8.01	8.71	21.68	13.5	5.3
pH	SU	7.12	6.7	5.8	6.87	6.19	6.25	6.76	6.71	6.51	6.68	6.85
Temperature	deg C	5.93	5.11	2.66	16.98	9.32	12.37	5.78	11.36	7.86	10.56	7.14
Turbidity	NTU	18.5	17.3	45.1	75.6	171	27.4	27.4	89.4	45.1	64.2	233
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	0.011 J	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 UJ	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.018 J	< 0.050 U	< 0.051 U	0.017 J	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	0.024 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	0.015 J	< 0.050 U	< 0.051 U	0.015 J	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	0.016 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 UJ	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	0.023 J	< 0.050 U	< 0.051 U	0.024 J	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	0.020 J
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	0.045 J	0.097	< 0.054 U	0.16	< 0.051 U	< 0.050 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.019 J	< 0.050 U	< 0.051 U	0.038 J	< 0.054 U	< 0.053 U	< 0.051 U	< 0.050 U	0.019 J

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-004	WS-004	WS-004	WS-004	WS-004	WS-004	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		1/2/2014	1/11/2014	1/15/2014	1/22/2014	1/29/2014	2/5/2014	11/7/2013	11/7/2013	11/14/2013	11/14/2013	11/21/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-004(0.5-1.0)010214	WS-004(0.5-1.0)011114	WS-004(0.5-1.0)011514	WS-004(0.5-1.0)012214	WS-004(0.5-1.0)012914	WS-004(0.5-1.0)020514	WS-006(0.5-1.0)110713	DUP-WS-111-110713	WS-006(0.5-1.0)111413	DUP-WS-112-111413	WS-006(0.5-1.0)112113
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	46	52	37	36	38	46	77	NA	78	NA	77
Dissolved Oxygen	mg/l	8.82	8.28	5.94	13.77	13.6	12.09	7.19	NA	7.33	NA	5.21
pH	SU	6.07	5.74	5.82	7.1	6.6	5.9	6.56	NA	6.47	NA	7.15
Temperature	deg C	4.8	4.71	8.22	6.57	5.25	2.78	13.42	NA	10.88	NA	12.34
Turbidity	NTU	29.2	67.5	72.1	44.4	20.1	72.4	21.1	NA	21.4	NA	26.2
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 UB	< 0.060 U	< 0.056 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.060 UJ	< 0.056 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	0.012 J	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	0.012 J	0.012 J	< 0.051 U	< 0.051 U	0.014 J	< 0.052 U	< 0.053 U	< 0.060 UJ	< 0.056 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	0.012 J	0.030 J	0.032 J	< 0.051 U	< 0.051 U	0.027 J	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	0.014 J	0.016 J	< 0.051 U	< 0.051 U	0.011 J	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	0.011 J	0.011 J	< 0.051 U	< 0.051 U	0.011 J	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Chrysene - Total	ug/l	< 0.053 U	0.025 J	0.022 J	< 0.051 U	< 0.051 U	0.022 J	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 UJ	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Fluoranthene - Total	ug/l	0.013 J	0.038 J	0.027 J	0.012 J	< 0.051 U	0.031 J	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Fluorene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	0.012 J	0.013 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U
Pyrene - Total	ug/l	0.011 J	0.030 J	0.028 J	< 0.051 U	< 0.051 U	0.026 J	< 0.052 U	< 0.053 U	< 0.060 U	< 0.056 U	< 0.050 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006
Sample Date		11/21/2013	11/25/2013	11/25/2013	12/4/2013	12/4/2013	12/12/2013	12/12/2013	12/19/2013	12/19/2013	12/26/2013	12/26/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		DUP-WS-113-112113	WS-006(0.5-1.0)112513	DUP-WS-114-112513	WS-006(0.5-1.0)120413	DUP-WS-115-120413	WS-006(0.5-1.0)121213	DUP-WS-116-121213	WS-006(0.5-1.0)121913	DUP-WS-117-121913	WS-006(0.5-1.0)122613	DUP-WS-118-122613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	NA	79	NA	77	NA	76	NA	80	NA	59	NA
Dissolved Oxygen	mg/l	NA	6.21	NA	10.77	NA	15.41	NA	8.74	NA	7.14	NA
pH	SU	NA	7.71	NA	7.19	NA	6.87	NA	6.83	NA	6.87	NA
Temperature	deg C	NA	4.21	NA	11.11	NA	4.34	NA	7.38	NA	6.56	NA
Turbidity	NTU	NA	58.1	NA	28	NA	14.2	NA	15.5	NA	28.5	NA
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.016 J	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.053 UJ	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	0.017 J	0.011 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	0.051 J	0.020 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.031 J	0.032 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	0.037 J	< 0.051 U
Chrysene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.028 J	0.014 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	0.038 J	0.029 J
Fluoranthene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.024 J	0.021 J
Fluorene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.052 U	0.045 J	0.032 J
Naphthalene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	0.043 J	0.053 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	0.019 J	0.019 J

Location		WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-006	WS-007
Sample Date		1/3/2014	1/3/2014	1/12/2014	1/12/2014	1/17/2014	1/17/2014	1/22/2014	1/22/2014	1/31/2014	1/31/2014	11/7/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-006(0.5-1.0)010314	DUP-WS-119-010314	WS-006(0.5-1.0)011214	DUP-WS-120-01122014	WS-006(0.5-1.0)011714	DUP-WS-121-011714	WS-006(0.5-1.0)012214	DUP-WS-122-012214	WS-006(0.5-1.0)013114	DUP-WS-123-013114	WS-007(0.5-1.0)110713
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier III
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	69	NA	54	NA	48	NA	52	NA	53	NA	68
Dissolved Oxygen	mg/l	9.74	NA	10.47	NA	11.79	NA	13.51	NA	9.24	NA	9.71
pH	SU	7.71	NA	6.33	NA	5.87	NA	7.17	NA	6.85	NA	7.21
Temperature	deg C	4.52	NA	4.55	NA	5.15	NA	4.91	NA	3.04	NA	16.67
Turbidity	NTU	28.8	NA	39	NA	31.8	NA	18.7	NA	19.8	NA	181
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U	< 0.050 U	< 0.056 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	0.017 J	< 0.051 U	< 0.050 U	< 0.056 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	0.023 J	0.024 J	0.012 J	0.018 J	< 0.051 U	0.022 J	< 0.051 U	< 0.050 U	< 0.056 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	0.021 J	< 0.051 U	< 0.050 U	< 0.056 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Chrysene - Total	ug/l	< 0.051 U	< 0.052 U	0.019 J	0.020 J	< 0.051 U	0.012 J	< 0.051 U	0.012 J	< 0.051 U	< 0.050 U	< 0.056 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.052 U	0.030 J	0.032 J	0.012 J	0.016 J	< 0.051 U	0.016 J	< 0.051 U	< 0.050 U	< 0.056 U
Fluorene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 UJ	< 0.051 U	< 0.051 U	0.017 J	< 0.051 U	< 0.050 U	< 0.056 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.052 UB	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.052 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.056 U
Pyrene - Total	ug/l	< 0.051 U	< 0.052 U	0.024 J	0.026 J	0.011 J	0.015 J	< 0.051 U	0.013 J	< 0.051 U	< 0.050 U	< 0.056 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007	WS-007
Sample Date		11/13/2013	11/20/2013	11/26/2013	12/3/2013	12/11/2013	12/18/2013	12/27/2013	1/2/2014	1/11/2014	1/15/2014	1/22/2014
Depths (ft)		0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1 ft
Sample ID		WS-007(0.5-1.0)111313	WS-007(0.5-1.0)112013	WS-007(0.5-1.0)112613	WS-007(0.5-1.0)120313	WS-007(0.5-1.0)121113	WS-007(0.5-1.0)121813	WS-007(0.5-1.0)122713	WS-007(0.5-1.0)010214	WS-007(0.5-1.0)011114	WS-007(0.5-1.0)011514	WS-007(0.5-1.0)012214
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	69	71	70	79	94	78	43	45	46	37	36
Dissolved Oxygen	mg/l	6.11	7.21	6.91	9.03	11.62	9.72	5.64	10.04	10.97	6.08	13.41
pH	SU	6.25	6.23	6.71	7.34	7.56	6.44	6.76	5.31	5.81	6.35	7.1
Temperature	deg C	7.18	11.68	5.52	12.05	6.16	9.98	6.05	4.64	5.55	9.37	7.53
Turbidity	NTU	456	91.3	92.4	38.3	40.2	48.7	46.9	180	65.3	71.1	58.5
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	0.019 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.019 J	0.013 J	0.011 J	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	0.016 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.023 J	0.018 J	0.014 J	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	0.035 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 UB	0.011 J	0.016 J	0.059	0.046 J	0.035 J	0.016 J
Benzo(g,h,i)Perylene - Total	ug/l	0.016 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.018 J	0.020 J	0.015 J	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	0.015 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.020 J	0.015 J	0.012 J	< 0.050 U
Chrysene - Total	ug/l	0.041 J	< 0.050 U	< 0.052 U	< 0.051 U	0.013 J	< 0.050 U	0.012 J	0.037 J	0.034 J	0.017 J	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	0.025 J	< 0.050 U	< 0.052 U	< 0.051 U	0.031 J	0.013 J	0.020 J	0.046 J	0.051 J	0.035 J	0.016 J
Fluorene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.014 J	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.019 J	0.018 J	0.012 J	< 0.050 U
Naphthalene - Total	ug/l	0.050 J	0.053	< 0.052 U	0.061	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 UB	< 0.051 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.050 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	0.023 J	0.014 J	< 0.052 U	< 0.051 U	0.020 J	< 0.050 U	0.017 J	0.044 J	0.041 J	0.036 J	0.013 J

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-007	WS-007	WS-008	WS-008	WS-008	WS-008	WS-008	WS-008	WS-009	WS-009
Sample Date		1/29/2014	2/5/2014	11/6/2013	11/21/2013	12/11/2013	12/18/2013	1/11/2014	2/5/2014	11/6/2013	11/13/2013
Depths (ft)		0.5-1 ft	0.5-1 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-007(0.5-1.0)012914	WS-007(0.5-1.0)020514	WS-008(SURFACE)110613	WS-008(SURFACE)112113	WS-008(SURFACE)121113	WS-008(SURFACE)121813	WS-008(SURFACE)011114	WS-008(SURFACE)020514	WS-009(SURFACE)110613	WS-009(SURFACE)111313
Validation Level		Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	42	44	158	99	193	213	59	55	82	78
Dissolved Oxygen	mg/l	14.39	12.29	6.35	6.02	17.03	12.6	12.84	12.85	7.52	9.81
pH	SU	6.93	5.69	6.13	6.01	7.27	6.68	5.39	5.96	6.88	6.2
Temperature	deg C	6.02	2.38	17.52	12.11	9.43	10.37	5.75	3.16	17.44	7.69
Turbidity	NTU	417	48	71.4	93.1	14.1	4.92	39.4	18.9	67.1	54.3
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.063 U	0.011 J	< 0.055 U	0.022 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.063 U	0.016 J	< 0.055 U	0.014 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.063 U	< 0.052 U	< 0.055 U	0.050 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 UJ	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 UJ	< 0.058 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	0.011 J	0.011 J	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	0.016 J	0.015 J	< 0.058 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	0.014 J	0.011 J	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	0.019 J	0.016 J	< 0.058 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.036 J	0.023 J	< 0.063 U	0.011 J	< 0.055 U	0.012 J	0.039 J	0.028 J	< 0.058 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	0.013 J	< 0.051 U	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	0.019 J	0.011 J	< 0.058 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	0.012 J	< 0.051 U	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	0.013 J	< 0.053 U	< 0.058 U	< 0.051 U
Chrysene - Total	ug/l	0.016 J	0.021 J	< 0.063 U	0.011 J	< 0.055 U	0.016 J	0.028 J	0.021 J	< 0.058 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 UJ	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 UJ	< 0.058 U	< 0.051 U
Fluoranthene - Total	ug/l	0.033 J	0.040 J	< 0.063 U	0.016 J	< 0.055 U	0.038 J	0.040 J	0.026 J	< 0.058 U	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.063 U	< 0.052 U	< 0.055 U	0.014 J	< 0.052 U	< 0.053 U	< 0.058 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.013 J	< 0.051 U	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	0.015 J	< 0.053 U	< 0.058 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.063 U	0.031 J	< 0.055 U	< 0.14 UB	< 0.052 U	< 0.053 U	< 0.058 U	0.031 J
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.063 U	< 0.052 U	< 0.055 U	< 0.055 U	< 0.052 U	< 0.053 U	< 0.058 U	< 0.051 U
Pyrene - Total	ug/l	0.030 J	0.030 J	< 0.063 U	0.012 J	< 0.055 U	0.027 J	0.090	0.030 J	0.064	< 0.051 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-009	WS-009	WS-009	WS-009	WS-009	WS-009	WS-009	WS-009	WS-009	WS-009
Sample Date		11/20/2013	11/26/2013	12/3/2013	12/11/2013	12/18/2013	12/27/2013	1/2/2014	1/11/2014	1/15/2014	1/22/2014
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-009(SURFACE)112013	WS-009(SURFACE)112613	WS-009(SURFACE)120313	WS-009(SURFACE)121113	WS-009(SURFACE)121813	WS-009(SURFACE)122713	WS-009(SURFACE)010214	WS-009(SURFACE)011114	WS-009(SURFACE)011514	WS-009(SURFACE)012214
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	78	77	88	112	79	60	66	63	54	48
Dissolved Oxygen	mg/l	7.76	6.57	6.78	14.66	11.4	6.94	12.07	9.66	6.28	13.54
pH	SU	6.17	6.24	6.87	6.19	6.83	6.72	5.55	6.01	6.28	7.14
Temperature	deg C	10.85	5.67	11.44	3.92	10.02	6.81	4.42	6.28	7.68	5.77
Turbidity	NTU	22.3	21.3	25.1	21.2	29.9	64.6	115	18.3	57.9	15.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 UB	< 0.051 U	0.014 J	0.012 J	< 0.050 U	0.011 J	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.063 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	0.018 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.062 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	0.018 J	< 0.051 U	0.015 J	0.013 J	< 0.050 U	0.013 J	< 0.050 U
Fluorene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.066 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.057 UB	0.074	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UB	< 0.050 U	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.050 U	< 0.057 U	< 0.056 U	0.013 J	< 0.051 U	0.011 J	0.012 J	< 0.050 U	0.011 J	< 0.050 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-009	WS-009	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		1/29/2014	2/5/2014	11/7/2013	11/7/2013	11/14/2013	11/14/2013	11/21/2013	11/21/2013	11/25/2013	11/25/2013
Depths (ft)		0 ft	0 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft
Sample ID		WS-009(SURFACE)012914	WS-009(SURFACE)020514	WS-010(1.5-2.0)110713	WS-010(3.5-4.0)110713	WS-010(1.5-2.0)111413	WS-010(3.5-4.0)111413	WS-010(1.5-2.0)112113	WS-010(3.5-4.0)112113	WS-010(1.5-2.0)112513	WS-010(3.5-4.0)112513
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	52	51	77	77	79	78	77	77	76	76
Dissolved Oxygen	mg/l	14.13	12.45	7	7.09	8.2	8.68	7.3	8.02	7.54	7.61
pH	SU	6.77	5.72	6.56	6.29	6.4	6.36	7.07	6.52	7.04	7.01
Temperature	deg C	4.96	2.5	13.33	13.33	10.38	10.39	12.06	12.01	6.11	6.02
Turbidity	NTU	19.7	73.6	21.7	22.4	19	19.8	19.6	21.9	19.6	22.6
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	0.014 J	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 UJ	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Fluoranthene - Total	ug/l	< 0.051 U	0.014 J	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	0.042 J	0.038 J	< 0.051 U	< 0.054 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.050 U	< 0.051 U	< 0.053 U	< 0.052 U	< 0.051 U	< 0.045 U	< 0.051 U	< 0.054 U

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010
Sample Date		12/4/2013	12/4/2013	12/12/2013	12/12/2013	12/19/2013	12/19/2013	12/26/2013	12/26/2013	1/3/2014	1/3/2014	1/12/2014
Depths (ft)		1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-010(1.5-2.0)120413	WS-010(3.5-4.0)120413	WS-010(1.5-2.0)121213	WS-010(3.5-4.0)121213	WS-010(1.5-2.0)121913	WS-010(3.5-4.0)121913	WS-010(1.5-2.0)122613	WS-010(3.5-4.0)122613	WS-010(1.5-2.0)010314	WS-010(3.5-4.0)010314	WS-010(1.5-2.0)011214
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	77	77	85	79	79	79	50	51	68	68	51
Dissolved Oxygen	mg/l	8.72	9.2	14.02	14.65	8.79	8.4	6.06	5.86	10.1	10.17	10.56
pH	SU	7.27	7.2	7.06	6.92	6.79	6.37	6.77	6.61	7.61	7.62	6.33
Temperature	deg C	10.56	10.49	3.37	3.41	7.08	7.09	5.67	5.77	4.23	4.24	4.42
Turbidity	NTU	24.7	22.5	20.1	17.2	18.3	19.2	35.6	35.5	17.5	16.4	49.8
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U
Anthracene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	0.011 J	0.012 J	< 0.053 U	< 0.051 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	0.019 J	< 0.053 U	< 0.051 U	0.011 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	0.023 J	0.026 J	< 0.053 U	< 0.051 U	0.023 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	0.057	< 0.053 U	< 0.051 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	0.014 J	< 0.053 U	< 0.051 U	< 0.050 U
Chrysene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	0.017 J	0.017 J	< 0.053 U	< 0.051 U	0.020 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	0.047 J	< 0.053 U	< 0.051 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	0.018 J	< 0.052 U	< 0.054 U	0.026 J	0.025 J	< 0.053 U	< 0.051 U	0.033 J
Fluorene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	0.052	< 0.053 U	< 0.051 U	< 0.050 U
Naphthalene - Total	ug/l	0.061	0.037 J	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 UB	< 0.051 U	< 0.050 U
Phenanthrene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.054 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.051 U	< 0.050 U
Pyrene - Total	ug/l	< 0.056 U	< 0.057 U	< 0.051 U	0.054	< 0.052 U	< 0.054 U	0.025 J	0.022 J	< 0.053 U	< 0.051 U	0.028 J

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-010	WS-011	WS-011	WS-011	WS-011
Sample Date		1/12/2014	1/17/2014	1/17/2014	1/22/2014	1/22/2014	1/31/2014	1/31/2014	11/7/2013	11/7/2013	11/13/2013	11/13/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-010(3.5-4.0)011214	WS-010(1.5-2.0)011714	WS-010(3.5-4.0)011714	WS-010(1.5-2.0)012214	WS-010(3.5-4.0)012214	WS-010(1.5-2.0)013114	WS-010(3.5-4.0)013114	WS-011(1.5-2.0)110713	WS-011(5.0-5.5)110713	WS-011(1.5-2.0)111313	WS-011(5.0-5.5)111313
Validation Level		Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	51	48	48	51	51	51	53	77	77	79	79
Dissolved Oxygen	mg/l	10.32	11.96	11.97	13.36	13.2	9.12	8.64	6.86	6.93	7.69	8.4
pH	SU	6.32	5.85	5.81	6.99	6.78	6.58	6.17	6.32	6.29	6.57	6.53
Temperature	deg C	4.43	5.34	5.35	4.49	4.53	3.58	3.42	13.87	13.88	11.68	11.62
Turbidity	NTU	50.8	19.7	18.9	18.4	17.8	12.7	12.4	26.2	26.1	27.9	23.5
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	0.017 J
Benzo(a)Pyrene - Total	ug/l	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	0.027 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	0.014 J
Benzo(g,h,i)Perylene - Total	ug/l	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Chrysene - Total	ug/l	0.023 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	0.014 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Fluoranthene - Total	ug/l	0.038 J	0.012 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	0.051
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	0.041 J	0.048 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.051 U
Pyrene - Total	ug/l	0.032 J	0.011 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.053 U	< 0.051 U	< 0.050 U	< 0.050 U	< 0.052 U	0.037 J

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		11/20/2013	11/20/2013	11/26/2013	11/26/2013	12/4/2013	12/4/2013	12/12/2013	12/12/2013	12/19/2013	12/19/2013	12/26/2013	12/26/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-011(1.5-2.0)112013	WS-011(5.0-5.5)112013	WS-011(1.5-2.0)112613	WS-011(5.0-5.5)112613	WS-011(1.5-2.0)120413	WS-011(5.0-5.5)120413	WS-011(1.5-2.0)121213	WS-011(5.0-5.5)121213	WS-011(1.5-2.0)121913	WS-011(5.0-5.5)121913	WS-011(1.5-2.0)122613	WS-011(1.5-2.0)122613
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
FIELD													
Conductivity	uS/cm	76	75	76	75	77	77	79	78	77	76	77	
Dissolved Oxygen	mg/l	9.51	9.13	8.77	9.11	10.02	9.58	15.07	14.93	9.51	9.01	6.86	
pH	SU	6.76	6.75	6.71	6.82	7.27	7.27	7.18	7.03	6.02	5.59	7.03	
Temperature	deg C	13.49	13.43	5.61	5.63	10.14	10.04	4.36	4.14	6.67	6.69	7.77	
Turbidity	NTU	28.2	27.5	29.4	31.6	22.2	22.4	16	15.1	11.9	12.4	15.6	
PAHs-SIM													
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Naphthalene - Total	ug/l	0.068	0.057	< 0.053 U	< 0.056 U	0.059	0.059	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.057 U	< 0.054 U	< 0.051 U	< 0.051 U	< 0.056 U	< 0.056 U	< 0.052 U	

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011	WS-011
Sample Date		12/26/2013	1/3/2014	1/3/2014	1/12/2014	1/12/2014	1/16/2014	1/16/2014	1/22/2014	1/22/2014	1/31/2014	1/31/2014
Depths (ft)		5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	4.5-5 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-011(5.0-5.5)122613	WS-011(1.5-2.0)010314	WS-011(5.0-5.5)010314	WS-011(1.5-2.0)011214	WS-011(5.0-5.5)011214	WS-011(1.5-2.0)011614	WS-011(4.5-5.0)011614	WS-011(1.5-2.0)012214	WS-011(5.5-6.0)012214	WS-011(1.5-2.0)013114	WS-011(5.5-6.0)013114
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	79	80	80	77	72	56	54	53	53	53	53
Dissolved Oxygen	mg/l	7.25	11.1	10.96	11.71	11.9	13.04	12.67	13.47	13.27	8.53	8.25
pH	SU	6.95	6.77	6.61	4.67	4.78	5.69	5.58	6.84	6.74	6.21	5.75
Temperature	deg C	7.56	4.27	4.29	3.18	2.98	5.86	5.85	5.33	5.42	4.44	3.95
Turbidity	NTU	15.2	15.1	14.7	10.9	11.7	14.5	14.5	16.8	16.4	12.6	12.4
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	0.011 J	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.054 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.052 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		11/7/2013	11/7/2013	11/14/2013	11/14/2013	11/21/2013	11/21/2013	11/25/2013	11/25/2013	12/4/2013	12/4/2013	12/12/2013
Depths (ft)		1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft
Sample ID		WS-012(1.5-2.0)110713	WS-012(5.0-5.5)110713	WS-012(1.5-2.0)111413	WS-012(5.0-5.5)111413	WS-012(1.5-2.0)112113	WS-012(5.0-5.5)112113	WS-012(1.5-2.0)112513	WS-012(5.0-5.5)112513	WS-012(1.5-2.0)120413	WS-012(5.0-5.5)120413	WS-012(1.5-2.0)121213
Validation Level		Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	77	77	80	80	78	78	77	77	77	77	79
Dissolved Oxygen	mg/l	6.58	7.42	8.92	9.04	8.91	8.71	8.59	8.42	10.35	9.54	13.54
pH	SU	6.27	6.24	6.54	6.56	6.89	7.02	6.81	7.02	7.22	6.87	6.88
Temperature	deg C	13.95	13.97	10.94	10.92	12.45	12.41	6.62	6.93	9.94	9.89	3.4
Turbidity	NTU	21	20.4	61.7	59.8	21.1	23.8	28.4	19.9	20.1	20.4	16.9
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.053 U	< 0.052 UB	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 UJ	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 UJ	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 UJ	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 UJ	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Chrysene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 UJ	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Fluorene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 UJ	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	0.062	0.045 J	< 0.051 U	< 0.053 U	0.057	0.059	< 0.050 U
Phenanthrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U
Pyrene - Total	ug/l	< 0.053 U	< 0.052 U	< 0.051 U	< 0.054 U	< 0.056 U	< 0.052 U	< 0.051 U	< 0.053 U	< 0.056 U	< 0.058 U	< 0.050 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012	WS-012
Sample Date		12/12/2013	12/19/2013	12/19/2013	12/26/2013	12/26/2013	1/3/2014	1/3/2014	1/12/2014	1/12/2014	1/17/2014	1/17/2014
Depths (ft)		5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5-5.5 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5-5.5 ft
Sample ID		WS-012(5.0-5.5)121213	WS-012(1.5-2.0)121913	WS-012(5.0-5.5)121913	WS-012(1.5-2.0)122613	WS-012(5.0-5.5)122613	WS-012(1.5-2.0)010314	WS-012(5.0-5.5)010314	WS-012(1.5-2.0)011214	WS-012(5.5-6.0)011214	WS-012(1.5-2.0)011714	WS-012(5.0-5.5)011714
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	77	79	79	86	88	74	74	64	65	52	52
Dissolved Oxygen	mg/l	13.5	9.48	8.58	7.39	7.48	10.27	9.49	12.43	12.33	11.64	11.65
pH	SU	6.78	6.77	6.28	7.07	6.63	7.69	7.15	6.51	6.5	5.77	5.76
Temperature	deg C	3.33	6.47	6.46	6.43	6.21	4.61	4.61	3.39	3.25	5.23	5.25
Turbidity	NTU	14.7	12.2	12.5	19.5	16.2	16.4	17.7	12.2	11.9	15.3	15.6
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.011 J	< 0.051 U
Fluorene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.050 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	0.035 J	< 0.051 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-012	WS-012	WS-012	WS-012	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		1/22/2014	1/22/2014	1/31/2014	1/31/2014	11/7/2013	11/7/2013	11/14/2013	11/14/2013	11/21/2013	11/21/2013	11/25/2013
Depths (ft)		1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft
Sample ID		WS-012(1.5-2.0)012214	WS-012(5.5-6.0)012214	WS-012(1.5-2.0)013114	WS-012(5.5-6.0)013114	WS-014(1.5-2.0)110713	WS-014(5.5-6.0)110713	WS-014(1.5-2.0)111413	WS-014(5.5-6.0)111413	WS-014(1.5-2.0)112113	WS-014(5.5-6.0)112113	WS-014(1.5-2.0)112513
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	52	52	52	52	85	85	80	80	78	77	71
Dissolved Oxygen	mg/l	13.11	13.1	8.5	8.58	7.08	7.16	7.9	8.59	7.5	8.07	7.01
pH	SU	7.04	6.79	6.45	6.01	6.24	6.23	6.51	6.52	6.92	6.72	6.61
Temperature	deg C	5.15	5.16	3.73	3.74	13.53	13.57	10.74	10.74	12.56	12.55	7.21
Turbidity	NTU	16.5	15.7	14.8	14.4	20.1	19.5	19.4	19.9	18.8	19.3	21.7
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 UB	< 0.053 UB	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Chrysene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	0.037 J	0.038 J	< 0.050 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U
Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.053 U	< 0.055 U	< 0.053 U	< 0.051 U	< 0.052 U	< 0.058 U	< 0.056 U	< 0.050 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014
Sample Date		11/25/2013	12/4/2013	12/4/2013	12/12/2013	12/12/2013	12/19/2013	12/19/2013	12/26/2013	12/26/2013	1/3/2014	1/3/2014
Depths (ft)		5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft
Sample ID		WS-014(5.5-6.0)112513	WS-014(1.5-2.0)120413	WS-014(5.5-6.0)120413	WS-014(1.5-2.0)121213	WS-014(5.5-6.0)121213	WS-014(1.5-2.0)121913	WS-014(5.5-6.0)121913	WS-014(1.5-2.0)122613	WS-014(5.5-6.0)122613	WS-014(1.5-2.0)010314	WS-014(5.5-6.0)010314
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	71	81	81	85	78	78	78	72	69	81	81
Dissolved Oxygen	mg/l	7.62	8.87	9.03	15.15	14.54	8.89	9.15	7.36	7.13	10.65	10.67
pH	SU	7.22	6.53	6.45	6.28	5.99	6.37	5.87	6.2	6.25	7.66	7.23
Temperature	deg C	7.01	8.87	8.92	4.07	3.86	6.47	6.33	6.58	6.39	4.23	4.23
Turbidity	NTU	25.3	10.8	10.2	11.6	9.8	7.3	7.9	14.1	15.3	12.6	12
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	0.016 J	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	0.077	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.079 UB	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	0.14	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.080 UB	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	0.021 J	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	0.13	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	0.13	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.059 UB	0.044 J	0.049 J	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.059 U	< 0.058 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-014	WS-015	WS-015	WS-015
Sample Date		1/12/2014	1/12/2014	1/16/2014	1/16/2014	1/22/2014	1/22/2014	1/31/2014	1/31/2014	11/6/2013	11/6/2013	11/14/2013
Depths (ft)		1.5-2 ft	6-6.5 ft	1.5-2 ft	6-6.5 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	5.5-6 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-014(1.5-2.0)011214	WS-014(6.0-6.5)011214	WS-014(1.5-2.0)011614	WS-014(6.0-6.5)011614	WS-014(1.5-2.0)012214	WS-014(5.5-6.0)012214	WS-014(1.5-2.0)013114	WS-014(5.5-6.0)013114	WS-015(1.5-2.0)110613	WS-015(3.5-4.0)110613	WS-015(1.5-2.0)111413
Validation Level		Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	65	65	51	51	49	49	51	51	79	80	83
Dissolved Oxygen	mg/l	13.07	11.38	14.85	13.8	13.06	12.93	8.4	8.31	7.04	7.87	10.12
pH	SU	5.19	5.3	5.98	5.95	6.13	6.09	6	5.69	6.4	6.43	6.96
Temperature	deg C	2.56	2.5	6.33	6	4.59	4.56	3.69	3.65	15.61	15.47	10.35
Turbidity	NTU	10.4	10.5	12.9	14.7	15.8	15.8	11.5	12.8	22.3	36.5	99
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	0.032 J
Phenanthrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.051 U	< 0.050 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015
Sample Date		11/14/2013	11/21/2013	11/21/2013	11/25/2013	11/25/2013	12/4/2013	12/4/2013	12/12/2013	12/12/2013	12/19/2013	12/19/2013
Depths (ft)		3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft
Sample ID		WS-015(3.5-4.0)111413	WS-015(1.5-2.0)112113	WS-015(3.5-4.0)112113	WS-015(1.5-2.0)112513	WS-015(3.5-4.0)112513	WS-015(1.5-2.0)120413	WS-015(3.5-4.0)120413	WS-015(1.5-2.0)121213	WS-015(3.5-4.0)121213	WS-015(1.5-2.0)121913	WS-015(3.5-4.0)121913
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	83	79	79	79	78	87	87	86	85	89	89
Dissolved Oxygen	mg/l	9.58	8.63	8.04	8.91	9.03	10.87	10.81	14.25	14.54	10.39	9.21
pH	SU	7.02	6.75	6.65	6.72	6.85	7.19	6.79	6.75	6.61	6.63	6.44
Temperature	deg C	10.42	12.57	12.59	6.21	6.89	9.43	9.38	3.27	3.15	6.79	6.76
Turbidity	NTU	78.1	20.9	21.3	31.6	25.7	17.2	28.6	15.4	12.6	11.8	12.8
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Anthracene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	0.016 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	0.015 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Chrysene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	0.013 J
Fluoranthene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Fluorene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	0.015 J
Naphthalene - Total	ug/l	< 0.058 U	0.037 J	< 0.059 U	< 0.057 U	< 0.053 U	0.045 J	0.051 J	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Phenanthrene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U
Pyrene - Total	ug/l	< 0.058 U	< 0.052 U	< 0.059 U	< 0.057 U	< 0.053 U	< 0.064 U	< 0.058 U	< 0.050 U	< 0.050 U	< 0.052 U	< 0.053 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015	WS-015
Sample Date		12/26/2013	12/26/2013	1/3/2014	1/3/2014	1/12/2014	1/12/2014	1/17/2014	1/17/2014	1/22/2014	1/22/2014	1/31/2014
Depths (ft)		1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft	3.5-4 ft	1.5-2 ft
Sample ID		WS-015(1.5-2.0)122613	WS-015(3.5-4.0)122613	WS-015(1.5-2.0)010314	WS-015(3.5-4.0)010314	WS-015(1.5-2.0)011214	WS-015(3.5-4.0)011214	WS-015(1.5-2.0)011714	WS-015(3.5-4.0)011714	WS-015(1.5-2.0)012214	WS-015(3.5-4.0)012214	WS-015(1.5-2.0)013114
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**											
FIELD												
Conductivity	uS/cm	106	107	78	78	67	67	51	51	53	53	53
Dissolved Oxygen	mg/l	8.15	8.35	10.34	9.78	13.11	13.09	11.52	11.55	13.01	13	8.59
pH	SU	5.77	5.76	7.06	6.9	6.27	6.26	5.58	5.56	6.74	6.58	6.21
Temperature	deg C	6.38	6.43	4.46	4.44	3.3	3.31	5.02	5.04	4.34	4.43	3.41
Turbidity	NTU	14.4	13.2	14.7	14.9	12.6	11.9	12.5	13.1	19.7	25	14.1
PAHs-SIM												
1-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
2-Methylnaphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Acenaphthylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(a)Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(g,h,i)Perylene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Chrysene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluoranthene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Fluorene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Naphthalene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Phenanthrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U
Pyrene - Total	ug/l	< 0.052 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-015	WS-020	WS-020	WS-020	WS-020	WS-020	WS-020	WS-020	WS-020	WS-020
Sample Date		1/31/2014	11/7/2013	11/13/2013	11/20/2013	11/26/2013	12/3/2013	12/12/2013	12/18/2013	12/27/2013	1/2/2014
Depths (ft)		3.5-4 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-015(3.5-4.0)013114	WS-020(SURFACE)110713	WS-020(SURFACE)111313	WS-020(SURFACE)112013	WS-020(SURFACE)112613	WS-020(SURFACE)120313	WS-020(SURFACE)121213	WS-020(SURFACE)121813	WS-020(SURFACE)122713	WS-020(SURFACE)010214
Validation Level		Tier II	Tier III	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	53	77	79	75	78	71	73	74	42	49
Dissolved Oxygen	mg/l	8.5	8.6	6.14	7.72	8.22	5.71	14.91	9.3	5.8	8.74
pH	SU	6.06	6.28	6.86	7.13	6.27	6.43	6.15	6.95	6.9	4.9
Temperature	deg C	3.43	14.23	6.81	10.43	5.81	10.9	4.12	9.02	5.06	3.59
Turbidity	NTU	14.6	28.1	78.7	37.8	32.8	91.7	43.72	65.8	35.2	41
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.053 UB	< 0.051 U	< 0.051 U	0.011 J	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.012 J	< 0.052 U	0.011 J
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.029 J	0.014 J	0.024 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.019 J	< 0.052 U	0.018 J
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.013 J	< 0.052 U	0.014 J
Chrysene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.020 J	0.011 J	0.015 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.013 J	< 0.052 U	0.011 J
Fluoranthene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.027 J	0.017 J	0.018 J
Fluorene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	< 0.053 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.019 J	< 0.052 U	0.018 J
Naphthalene - Total	ug/l	< 0.051 U	< 0.053 U	0.16	0.038 J	< 0.051 UB	0.062	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 UB
Phenanthrene - Total	ug/l	< 0.051 U	< 0.053 U	0.033 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	< 0.053 U	0.012 J	< 0.051 U	< 0.051 U	< 0.050 U	< 0.051 U	0.024 J	0.015 J	0.018 J

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-020	WS-020	WS-020	WS-020	WS-020	WS-021	WS-021	WS-021	WS-021	WS-021
Sample Date		1/11/2014	1/15/2014	1/22/2014	1/30/2014	2/6/2014	11/6/2013	11/13/2013	11/20/2013	11/26/2013	12/3/2013
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-020(SURFACE)011114	WS-020(SURFACE)011514	WS-020(SURFACE)012214	WS-020(SURFACE)013014	WS-020(SURFACE)020614	WS-021(SURFACE)110613	WS-021(SURFACE)111313	WS-021(SURFACE)112013	WS-021(SURFACE)112613	WS-021(SURFACE)120313
Validation Level		Tier II	Tier III	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
FIELD											
Conductivity	uS/cm	47	45	36	49	41	82	78	78	76	78
Dissolved Oxygen	mg/l	8.65	5.67	13.53	10.88	12.34	6.47	7.99	8.06	7.11	7.32
pH	SU	5.08	8.32	6.84	5.55	5.56	7.36	6.05	6.45	6.91	6.99
Temperature	deg C	4.66	8.48	6.72	4.55	0.34	16.82	9.32	11.67	5.74	10.87
Turbidity	NTU	73.1	84.4	22.6	30.2	59.7	131	64.2	22.7	22.1	32.8
PAHs-SIM											
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	0.014 J	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(a)Anthracene - Total	ug/l	0.017 J	0.012 J	< 0.051 U	< 0.051 U	0.011 J	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(a)Pyrene - Total	ug/l	0.024 J	0.015 J	< 0.051 U	< 0.051 U	0.013 J	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(b)Fluoranthene - Total	ug/l	0.053	0.036 J	< 0.051 U	0.018 J	0.025 J	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(g,h,i)Perylene - Total	ug/l	0.024 J	0.024 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Benzo(k)Fluoranthene - Total	ug/l	0.018 J	0.014 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Chrysene - Total	ug/l	0.055	0.024 J	< 0.051 U	0.013 J	0.021 J	< 0.055 U	0.023 J	< 0.050 U	< 0.051 U	< 0.053 U
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 UJ	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Fluoranthene - Total	ug/l	0.051	0.031 J	0.011 J	0.019 J	0.033 J	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	0.021 J	0.020 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Naphthalene - Total	ug/l	< 0.051 UB	< 0.051 U	< 0.051 U	< 0.058 UB	< 0.051 U	< 0.055 U	0.061	0.035 J	< 0.051 U	0.050 J
Phenanthrene - Total	ug/l	0.033 J	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.055 U	< 0.051 U	< 0.050 U	< 0.051 U	< 0.053 U
Pyrene - Total	ug/l	0.040 J	0.033 J	< 0.051 U	0.016 J	0.027 J	< 0.055 U	0.11	< 0.050 U	0.011 J	< 0.053 U

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		WS-021	WS-021	WS-021	WS-021	WS-021	WS-021	WS-021	WS-021	WS-021
Sample Date		12/11/2013	12/18/2013	12/27/2013	1/2/2014	1/11/2014	1/15/2014	1/22/2014	1/29/2014	2/5/2014
Depths (ft)		0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Sample ID		WS-021(SURFACE)121113	WS-021(SURFACE)121813	WS-021(SURFACE)122713	WS-021(SURFACE)010214	WS-021(SURFACE)011114	WS-021(SURFACE)011514	WS-021(SURFACE)012214	WS-021(SURFACE)012914	WS-021(SURFACE)020514
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier III	Tier II	Tier II	Tier II
Chemical	**Units**									
FIELD										
Conductivity	uS/cm	76	73	51	64	61	49	47	48	46
Dissolved Oxygen	mg/l	13.08	9.81	7.62	10.4	11.15	6.19	13.64	13.54	12.56
pH	SU	6.83	7.16	6.91	6.12	6.04	5.98	7.14	6.56	5.88
Temperature	deg C	4.68	7.78	7.19	4.78	5.01	7.58	6.15	4.09	2.63
Turbidity	NTU	41.1	56.7	142	25.9	19.4	51.8	27	28.1	44.8
PAHs-SIM										
1-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
2-Methylnaphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Acenaphthylene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 UJ
Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Anthracene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(a)Pyrene - Total	ug/l	< 0.051 U	< 0.051 U	0.011 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(b)Fluoranthene - Total	ug/l	< 0.051 U	0.020 J	0.028 J	0.015 J	< 0.051 U	0.015 J	< 0.051 U	< 0.051 U	0.023 J
Benzo(g,h,i)Perylene - Total	ug/l	< 0.051 U	0.028 J	0.013 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Benzo(k)Fluoranthene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Chrysene - Total	ug/l	< 0.051 U	0.014 J	0.022 J	< 0.052 U	< 0.051 U	0.012 J	< 0.051 U	< 0.051 U	0.018 J
Dibenz(a,h)Anthracene - Total	ug/l	< 0.051 U	0.025 J	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 UJ
Fluoranthene - Total	ug/l	< 0.051 U	0.019 J	0.031 J	0.015 J	0.011 J	0.017 J	< 0.051 U	< 0.051 U	0.027 J
Fluorene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Indeno[1,2,3-cd]pyrene - Total	ug/l	< 0.051 U	0.029 J	0.013 J	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Naphthalene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 UB	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Phenanthrene - Total	ug/l	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.051 U	< 0.052 U
Pyrene - Total	ug/l	< 0.051 U	0.016 J	0.031 J	0.014 J	< 0.051 U	0.015 J	< 0.051 U	< 0.051 U	0.023 J

Appendix F - Analytical Data Tables
Weekly Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

1. Sample counts presented in the summary do not include field duplicates
2. Locations and analytes sampled since November 4, 2013, are based on the Surface Water Sampling and Analysis Plan submitted to the ADEQ on November 1, 2013.
3. Limited surface water sampling during the week of February 3, 2014 due to icy and unsafe ground conditions.

Acronyms and Abbreviations:

Deg C = degrees Celsius
DRY = insufficient water at location, therefore no samples were collected.
ft = feet
mg/l = milligrams per liter
ND = non-detect
NTU = Nephelometric Turbidity Units
NV = not validated
SU = standard units
PAHs SIM = polycyclic aromatic hydrocarbons selective ion monitoring
ug/l = micrograms per liter
uS/cm = microSiemens per centimeter
X = sample(s) was collected from the specified location during the specified week.

Qualifier Definitions:

– = Not available or applicable
< = less than the limit of qauntitation
* = Dissolved oxygen concentrations greater 10 mg/L potentially indicate field instrument calibration error.
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

DARSP Surface Water Sampling
Data Table

Appendix F - Analytical Data Tables
DARSP Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Chemical	Units	WS-022DA Surface 8/13/2013 WS-022DA(SURFACE)081313	WS-023DA Surface 8/13/2013 WS-023DA(SURFACE)081313	WS-024DA Mid-Depth 8/13/2013 WS-024DA(MIDDEPTH)081313	WS-025DA Mid-Depth 8/15/2013 WS-025DA(MIDDEPTH)081513	WS-026DA Mid-Depth 8/15/2013 WS-026DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-027DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-DUP-01-DA-081513FD
FIELD								
Conductivity	uS/cm	124	154	82	149	51	47	NA
Dissolved Oxygen	mg/l	5.65	8.2	6.95	7.63	1.14	3.79	NA
pH	SU	6.84	6.59	6.85	6.72	5.54	5.9	NA
Temperature	deg C	25.58	26.83	25.01	35.95	24.23	24.55	NA
Turbidity	NTU	57.4	27.1	53.2	44.2	68.7	30.7	NA
Metals								
Arsenic - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Arsenic - Total	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Barium - Dissolved	mg/l	0.0208	0.0167	0.0215	0.0169	0.0223	0.0208	0.0209
Barium - Total	mg/l	0.0378	0.0383	0.0364	0.0324	0.0370	0.0321	0.0315
Cadmium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Cadmium - Total	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Calcium - Total	mg/l	6.17 J	5.12 J	4.51 J	8.76 J	3.70 J	3.68 J	3.58 J
Chromium - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Chromium - Total	mg/l	0.0034 J	0.0060 J	0.0038 J	0.0022 J	0.0023 J	< 0.0150 U	0.0018 J
Lead - Dissolved	mg/l	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Lead - Total	mg/l	< 0.0150 U	0.0057 J	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U	< 0.0150 U
Magnesium - Total	mg/l	3.55 J	2.98 J	1.69 J	4.34 J	1.67 J	1.61 J	1.55 J
Mercury - Dissolved	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Mercury - Total	mg/l	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Nickel - Dissolved	mg/l	0.0042 J	0.0026 J	0.0017 J	0.0018 J	< 0.0100 U	< 0.0100 U	< 0.0100 U
Nickel - Total	mg/l	0.0065 J	0.0065 J	0.0032 J	0.0030 J	0.0020 J	0.0018 J	< 0.0100 U
Selenium - Dissolved	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Selenium - Total	mg/l	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U	< 0.0200 U
Silver - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Silver - Total	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Dissolved	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
Vanadium - Total	mg/l	0.0035 J	0.0074	0.0043 J	0.0027 J	0.0024 J	< 0.0050 U	< 0.0050 U
Other								
Hardness (as CaCO3)	mg/l	30.0	25.1	18.2	39.8	16.1	15.8	15.3
Total Suspended Solids	mg/l	30.4 J	50.0 J	28.7 J	110	28.3	15.0	16.4
Priority PAHs								
1-Methylnaphthalene - Total	ng/l	< 1.5 UJ	< 2.41 UBJ	< 1.91 UBJ	< 1.5 UB	10.5	18.0	23.41
2-Methylnaphthalene - Total	ng/l	< 1.1 UJ	< 2.94 UBJ	< 2.35 UBJ	< 2.25 UB	< 5.25 UB	23.4	28.63
Acenaphthene - Total	ng/l	< 1.5 UJ	< 1.5 UJ	< 1.4 UJ	< 1.4 U	1.31 J	7.00 J	10.88 J
Acenaphthylene - Total	ng/l	6.86 J	9.92 J	3.64 J	< 1.2 U	2.09	14.03	15.34
Anthracene - Total	ng/l	18.49 J	27.62 J	6.76 J	< 0.8 U	1.85	24.47	28.84
Benzo(a)Anthracene - Total	ng/l	3.57 J	5.10 J	2.33 J	< 0.7 U	1.08	25.39	24.58
Benzo(a)Pyrene - Total	ng/l	6.47 J	10.48 J	3.69 J	< 1.9 U	< 2 U	34.75	39.48
Benzo(b)Fluoranthene - Total	ng/l	27.76 J	39.22 J	12.40 J	< 2.4 U	2.47	99.8	100.66
Benzo(g,h,i)Perylene - Total	ng/l	13.56 J	18.67 J	5.89 J	< 2.5 U	2.12 J	49.14	54.74
Benzo(j)+(k)Fluoranthene - Total	ng/l	6.41 J	9.39 J	2.89 J	< 2.5 U	0.75 J	32.9	31.31
Chrysene/Triphenylene - Total	ng/l	11.77 J	16.80 J	8.11 J	< 0.8 U	2.52	54.38	62.62
Dibenz(a,h)Anthracene - Total	ng/l	3.33 J	4.35 J	1.59 J	< 1.1 U	1.11 J	13.82 J	5.31 J
Fluoranthene - Total	ng/l	9.36 J	15.48 J	10.33 J	< 1.1 U	4.79	64.56 J	90.01 J
Fluorene - Total	ng/l	< 0.8 UJ	1.61 J	1.64 J	< 0.8 U	4.95	17.93 J	24.87 J
Indeno[1,2,3-cd]pyrene - Total	ng/l	11.05 J	15.63 J	5.63 J	< 1.4 U	1.73	43.43	48.14
Naphthalene - Total	ng/l	< 6.29 UBJ	< 10.08 UBJ	47.35 J	< 6.08 UB	< 8.45 UB	21.45 J	31.01 J
Phenanthrene - Total	ng/l	< 2.91 UBJ	< 4.25 UBJ	< 5.73 UBJ	< 2.3 U	< 6.70 UB	42.38 J	61.62 J
Pyrene - Total	ng/l	9.30 J	12.84 J	5.11 J	< 1.4 U	3.05	49.78	59.38
Additional PAHs for TU								
Benzo(e)Pyrene - Total	ng/l	17.51 J	23.56 J	7.43 J	< 2.7 U	< 2.8 U	59.95	65.24
C1-Chrysenes - Total	ng/l	< 1.6 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	< 1.6 U	< 1.7 U	< 1.8 U
C1-Fluoranthenes/Pyrenes - Total	ng/l	9.32 J	< 2.6 UJ	< 2.5 UJ	< 2.5 U	< 2.5 U	43.19	49.73
C1-Fluorenes - Total	ng/l	< 1.7 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	8.81	24.02	32.12
C1-Phenanthrenes/Anthracenes - Total	ng/l	< 0.7 UJ	< 0.7 UJ	< 0.7 UJ	< 0.7 U	< 0.7 U	95.11	111.31

Chemical	Units	WS-022DA Surface 8/13/2013 WS-022DA(SURFACE)081313	WS-023DA Surface 8/13/2013 WS-023DA(SURFACE)081313	WS-024DA Mid-Depth 8/13/2013 WS-024DA(MIDDEPTH)081313	WS-025DA Mid-Depth 8/15/2013 WS-025DA(MIDDEPTH)081513	WS-026DA Mid-Depth 8/15/2013 WS-026DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-027DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-DUP-01-DA-081513FD
C2-Chrysenes - Total	ng/l	< 1.6 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	< 1.6 U	< 1.7 U	< 1.8 U
C2-Fluorenes - Total	ng/l	< 1.7 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	< 1.7 U	< 1.7 U	< 1.9 U
C2-Naphthalenes - Total	ng/l	< 6 UJ	< 6.1 UJ	< 5.8 UJ	< 5.8 U	30.85	68.40	92.46
C2-Phenanthrenes/Anthracenes - Total	ng/l	< 3.1 UJ	< 3.2 UJ	< 3 UJ	< 3 U	< 3.1 U	139.61	161.29
C3-Chrysenes - Total	ng/l	< 1.6 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	< 1.6 U	< 1.7 U	< 1.8 U
C3-Fluorenes - Total	ng/l	< 1.7 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	< 1.7 U	< 1.7 U	< 1.9 U
C3-Naphthalenes - Total	ng/l	< 6 UJ	< 6.1 UJ	< 5.8 UJ	< 5.8 U	43.27	75.78 J	127.75 J
C3-Phenanthrenes/Anthracenes - Total	ng/l	< 3.1 UJ	< 3.2 UJ	< 3 UJ	< 3 U	< 3.1 U	67.38 J	< 3.5 UJ
C4-Chrysenes - Total	ng/l	< 1.6 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	< 1.6 U	< 1.7 U	< 1.8 U
C4-Naphthalenes - Total	ng/l	< 6 UJ	< 6.1 UJ	< 5.8 UJ	< 5.8 U	< 6 U	53.07 J	< 6.7 UJ
C4-Phenanthrenes/Anthracenes - Total	ng/l	< 3.1 UJ	< 3.2 UJ	< 3 UJ	< 3 U	< 3.1 U	44.96 J	< 3.5 UJ
Perylene - Total	ng/l	3.44 J	5.10 J	< 0.6 UJ	< 0.6 U	0.97	105	136.81
Phenanthrene, 2-methyl- - Total	ng/l	< 1 UJ	< 1 UJ	< 0.9 UJ	< 0.9 UJ	< 1 UJ	13.0 J	16.89 J
Forensic PAHs								
1,1-Biphenyl - Total	ng/l	< 5.1 UBJ	< 5.1 UBJ	< 5.1 UBJ	< 5.1 U	< 5.1 UB	30.87	38.08
18a-Oleanane - Total	ng/l	< 8.4 UJ	< 8.6 UJ	< 8.2 UJ	< 8.2 U	< 8.4 U	< 8.8 U	< 9.4 U
1-Methyldibenzothiophene(1MDT) - Total	ng/l	< 1 UJ	< 1 UJ	< 1 UJ	< 1 U	4.68	14.8	19.95
1-Methylfluorene - Total	ng/l	< 1.5 UJ	< 1.5 UJ	< 1.5 UJ	< 1.5 U	4.89	12.5 J	18.09 J
1-Methylphenanthrene - Total	ng/l	< 1 UJ	< 1 UJ	< 0.9 UJ	< 0.9 U	< 1 U	10.3	10.93
2,3,5-Trimethylnaphthalene - Total	ng/l	< 0.7 UJ	< 0.7 UJ	< 0.7 UJ	< 0.7 U	4.48	9.97	11.02
2/3-Methyldibenzothiophene(2MDT) - Total	ng/l	< 1 UJ	< 1 UJ	< 1 UJ	< 1 U	3.13	13.7 J	19.39 J
2-Methylanthracene - Total	ng/l	< 1 UJ	< 1 UJ	< 0.9 UJ	< 0.9 U	< 1 U	57.6	59.92
2-Methylfluoranthene - Total	ng/l	1.01 J	< 1.2 UJ	< 1.1 UJ	< 1.1 U	< 1.2 U	5.04	4.82
3,6-Dimethylphenanthrene - Total	ng/l	< 1.7 UJ	< 1.8 UJ	< 1.7 UJ	< 1.7 U	< 1.7 U	2.96	< 1.9 U
3-Methylphenanthrene (3MP) - Total	ng/l	< 1 UJ	< 1 UJ	< 0.9 UJ	< 0.9 U	< 1 U	8.1 J	11.88 J
4-Methyldibenzothiophene(4MDT) - Total	ng/l	< 1 UJ	< 1 UJ	< 1 UJ	< 1 U	4.69	18.1	24.36
9/4-Methylphenanthrene (9MP) - Total	ng/l	< 1 UJ	< 1 UJ	< 0.9 UJ	< 0.9 U	< 1 U	11.6 J	18.19 J
Benzo(a)Fluoranthene - Total	ng/l	2.29 J	3.47 J	1.10 J	< 2.5 U	< 2.6 U	9.36 J	< 2.9 UJ
Benzo(b)fluorene - Total	ng/l	0.57 J	< 1.4 UJ	< 1.4 UJ	< 1.4 U	< 1.4 U	9.90	11.42
Benzothiophene - Total	ng/l	< 1.3 UJ	< 1.4 UJ	< 1.3 UJ	< 1.3 U	< 1.3 U	< 1.4 U	< 1.5 U
C1-Benzo(b)thiophenes - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C1-Decalins - Total	ng/l	< 2.4 UJ	< 2.4 UJ	< 2.3 UJ	< 2.3 U	< 2.4 U	< 2.5 U	< 2.6 U
C1-Dibenzothiophenes - Total	ng/l	< 0.7 UJ	< 0.7 UJ	< 0.7 UJ	< 0.7 U	7.46	27.86 J	38.07 J
C1-Naphthalenes - Total	ng/l	< 1.4 UJ	< 3.52 UBJ	< 2.80 UBJ	< 2.18 UB	10.26	27.29	34.25
C1-Naphthobenzothiophenes - Total	ng/l	< 2.1 UJ	< 2.2 UJ	< 2.1 UJ	< 2.1 U	< 2.1 U	21.79 J	32.25 J
C20-TAS - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C21-TAS - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C26(20R)/C27(20S)-TAS - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C26(20S)-TAS - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C27(20R)-TAS - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C28(20R)-TAS - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C28(20S)-TAS - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C29-Hopane - Total	ng/l	< 8.4 UJ	< 8.6 UJ	< 8.2 UJ	< 8.2 U	< 8.4 U	< 8.8 U	< 9.4 U
C2-Benzo(b)thiophenes - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C2-Decalins - Total	ng/l	< 2.4 UJ	< 2.4 UJ	< 2.3 UJ	< 2.3 U	< 2.4 U	< 2.5 U	< 2.6 U
C2-Dibenzothiophenes - Total	ng/l	< 1.4 UJ	< 1.4 UJ	< 1.3 UJ	< 1.3 U	10.26	42.31 J	63.35 J
C2-Fluoranthenes/Pyrenes - Total	ng/l	11.09 J	< 2.6 UJ	< 2.5 UJ	< 2.5 U	< 2.5 U	49.50 J	79.71 J
C2-Naphthobenzothiophenes - Total	ng/l	< 2.1 UJ	< 2.2 UJ	< 2.1 UJ	< 2.1 U	< 2.1 U	36.65 J	54.35 J
C30-Hopane - Total	ng/l	< 8.4 UJ	< 8.6 UJ	< 8.2 UJ	< 8.2 U	< 8.4 U	< 8.8 U	< 9.4 U
C3-Benzo(b)thiophenes - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C3-Decalins - Total	ng/l	< 2.4 UJ	< 2.4 UJ	< 2.3 UJ	< 2.3 U	< 2.4 U	< 2.5 U	< 2.6 U
C3-Dibenzothiophenes - Total	ng/l	< 1.4 UJ	< 1.4 UJ	< 1.3 UJ	< 1.3 U	8.27	52.14 J	76.63 J
C3-Fluoranthenes/Pyrenes - Total	ng/l	4.71 J	< 2.6 UJ	< 2.5 UJ	< 2.5 U	< 2.5 U	< 2.7 UJ	40.83 J
C3-Naphthobenzothiophenes - Total	ng/l	< 2.1 UJ	< 2.2 UJ	< 2.1 UJ	< 2.1 U	< 2.1 U	34.26 J	51.49 J
C4-Benzo(b)thiophenes - Total	ng/l	< 2.7 UJ	< 2.7 UJ	< 2.6 UJ	< 2.6 U	< 2.7 U	< 2.8 U	< 3 U
C4-Decalins - Total	ng/l	< 2.4 UJ	< 2.4 UJ	< 2.3 UJ	< 2.3 U	< 2.4 U	< 2.5 U	< 2.6 U
C4-Dibenzothiophenes - Total	ng/l	< 1.4 UJ	< 1.4 UJ	< 1.3 UJ	< 1.3 U	< 1.4 U	40.11 J	55.70 J

Appendix F - Analytical Data Tables
DARSP Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Chemical	Units	WS-022DA Surface 8/13/2013 WS-022DA(SURFACE)081313	WS-023DA Surface 8/13/2013 WS-023DA(SURFACE)081313	WS-024DA Mid-Depth 8/13/2013 WS-024DA(MIDDEPTH)081313	WS-025DA Mid-Depth 8/15/2013 WS-025DA(MIDDEPTH)081513	WS-026DA Mid-Depth 8/15/2013 WS-026DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-027DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-DUP-01-DA-081513FD
C4-Fluoranthenes/Pyrenes - Total	ng/l	< 2.5 UJ	< 2.6 UJ	< 2.5 UJ	< 2.5 U	< 2.5 U	< 2.7 U	< 2.8 U
C4-Naphthobenzothiophenes - Total	ng/l	< 2.1 UJ	< 2.2 UJ	< 2.1 UJ	< 2.1 U	< 2.1 U	< 2.2 U	< 2.4 U
Carbazole - Total	ng/l	2.18 J	2.82 J	2.14 J	< 0.8 U	< 0.9 U	8.65	9.62
cis/trans-Decalin (Decahydronaphthalene) - Total	ng/l	< 1.2 UJ	< 1.2 UJ	< 1.1 UJ	< 1.1 U	< 1.2 U	< 1.2 U	< 1.3 U
Dibenzofuran - Total	ng/l	2.85 J	2.87 J	2.31 J	< 1.2 U	3.29	9.97 J	15.57 J
Dibenzothiophene - Total	ng/l	< 0.8 UJ	< 0.9 UJ	< 0.8 UJ	< 0.8 U	3.09	15.60	20.16
Naphthalene, 2,6-dimethyl- - Total	ng/l	< 0.7 UJ	< 0.7 UJ	< 0.7 UJ	< 0.7 U	6.72	21.5 J	32.23 J
Naphthobenzothiophene - Total	ng/l	< 1.1 UJ	< 1.1 UJ	< 1 UJ	< 1 U	< 1.1 U	19.50	19.91
Retene - Total	ng/l	< 1.6 UJ	< 1.7 UJ	< 1.6 UJ	< 1.6 U	< 1.6 U	7.24 J	< 1.8 UJ
TPH								
Oil & Grease	mg/l	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
VOCs								
1,1,1,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,1-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1,2-Trichlorotrifluoroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,1-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromoethane (EDB)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3,5-Trimethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,3-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2,2-Dichloropropane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Butanone (MEK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	1.3 J	< 5.0 U	< 5.0 U	< 5.0 U
2-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Phenylbutane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Chlorotoluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	ug/l	3.1 J	3.7 J	< 5.0 U	13	5.2	4.4 J	4.0 J
Allyl chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Benzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromodichloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromoform (Tribromomethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Bromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Carbon Tetrachloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chlorobenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U
Chloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromochloromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dibromomethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Dichlorodifluoromethane (CFC-12)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

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Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Chemical	Units	WS-022DA Surface 8/13/2013 WS-022DA(SURFACE)081313	WS-023DA Surface 8/13/2013 WS-023DA(SURFACE)081313	WS-024DA Mid-Depth 8/13/2013 WS-024DA(MIDDEPTH)081313	WS-025DA Mid-Depth 8/15/2013 WS-025DA(MIDDEPTH)081513	WS-026DA Mid-Depth 8/15/2013 WS-026DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-027DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-DUP-01-DA-081513FD
Dichlorofluoromethane	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Diethyl ether (Ethyl ether)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Ethylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Hexachloro-1,3-Butadiene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene (Cumene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methylene Chloride (Dichloromethane)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Methyl-tert-butyl ether	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
n-Propylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
p-Isopropyltoluene (Cymene)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Styrene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tert-Butylbenzene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrachloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Tetrahydrofuran	ug/l	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	0.1 J	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Trichloroethene	ug/l	0.2 J	0.4 J	< 0.5 U	< 0.5 U	< 0.5 U	0.2 J	0.3 J
Trichlorofluoromethane (CFC-11)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Chloride	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Xylene (Total)	ug/l	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U

Notes:

< = less than the limit of quantitation
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
Deg C = degrees Celsius
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/l = milligrams per liter
NTU = Nephelometric Turbidity Units
PAH = polycyclic aromatic hydrocarbons
SU = standard units
TPH = total petroleum hydrocarbons
U = Compound was not detected
UB = Compound considered non-detect at the listed value due to associated blank contamination.
ug/l = micrograms per liter
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
uS/cm = microSiemens per centimeter
VOC = volatile organic compound