Appendix K

Analytical Data Tables - Detected Analytes Only

ARCADIS

DARSP Soil Sampling Data Tables

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Soil Data

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

	Location Depths (ft) Sample Date Sample ID	SO-DA-BG-001 0-0.5 ft 8/15/2013 SO-DA-BG-001(0.0-0.5)	SO-DA-BG-002 0-0.5 ft 8/15/2013 SO-DA-BG-002(0.0-0.5)	SO-DA-BG-003 0-0.5 ft 8/15/2013 SO-DA-BG-003(0.0-0.5)	SO-DA-BG-004 0-0.5 ft 8/15/2013 SO-DA-BG-004(0.0-0.5)	SO-DA-BG-005 0-0.5 ft 8/15/2013 SO-DA-BG-005(0.0-0.5)	SO-DA-BG-006 0-0.5 ft 8/15/2013 SO-DA-BG-006(0.0-0.5)
Chemical	**Units**						
Metals							
Arsenic	mg/kg	5.60 J	4.98 J	17.3 J	3.68 J	15.7 J	12.7 J
Barium	mg/kg	63.7	124	76.4	86.0	95.8	125
Cadmium	mg/kg	0.279 J	0.173 J	0.313 J	0.180 J	0.177 J	--
Chromium	mg/kg	18.5	15.3	30.6	21.1	42.8	35.7
Lead	mg/kg	49.3	10.9	115	22.4	29.1	27.8
Mercury	mg/kg	0.0227 J	0.0125 J	0.0296 J	0.0210 J	0.0724 J	0.0404 J
Nickel	mg/kg	7.93	11.5	17.2	10.8	30.6	50.9
Selenium	mg/kg	1.13 J	--	2.08 J	--	2.50	2.39
Silver	mg/kg	0.219 J	--	0.540 J	--	0.624	0.709
Vanadium	mg/kg	25.6	20.9	30.8	24.0	29.4	33.4
Other							
Black Carbon	%	--	0.18 J	0.48 J	--	--	--
Percent Moisture	%	16.4	15.8	14.8	30.4	15.3	14.8
Total Organic Carbon	%	1.51	0.53	2.39	2.26	0.82	1.42
Priority PAHs							
1-Methylnaphthalene	ug/kg	2.85	1.09	10.7	2.38	6.78	3.74
2-Methylnaphthalene	ug/kg	5.38	2.73	15.8	4.97	15.3	8.28
Acenaphthene	ug/kg	0.856	0.335	0.912	1.03	1.12	1.96
Acenaphthylene	ug/kg	3.20	0.565	14.2	5.08	1.09	1.51
Anthracene	ug/kg	4.25	0.726	18.5	11.6	0.867	2.68
Benzo(a)Anthracene	ug/kg	5.88	0.858	51.3	19.2 J	2.55	12.1
Benzo(a)Pyrene	ug/kg	3.70	0.697	36.5	17.4 J	1.45	4.93
Benzo(b)Fluoranthene	ug/kg	19.9	3.63	139	46.5	12.7	26.0
Benzo(g,h,i)Perylene	ug/kg	7.35	1.75	52.1	16.5 J	3.71	10.9
Benzo(j)+(k)Fluoranthene	ug/kg	7.20	0.731	52.4	16.4 J	1.99	7.70
Chrysene/Triphenylene	ug/kg	16.2	2.78	86.2	24.2 J	9.09	21.0
Dibenz(a,h)Anthracene	ug/kg	2.29	--	17.0	5.56	1.20	3.74
Fluoranthene	ug/kg	30.5	2.80	98.5	22.3 J	9.95	31.6
Fluorene	ug/kg	5.29	2.68	4.26	3.82	9.17	5.43
Indeno[1,2,3-cd]pyrene	ug/kg	7.06	1.25	47.1	15.8 J	3.09	10.0
Naphthalene	ug/kg	6.58	1.92	13.4	5.88	14.9	10.5
Phenanthrene	ug/kg	27.0	8.27	42.2	12.0	27.1	30.0
Pyrene	ug/kg	19.4	2.34	72.2	22.1 J	7.32	25.5
Forensic PAHs							
Benzo(e)Pyrene	ug/kg	9.41	1.92	66.3	21.3 J	4.13	11.4
C1-Chrysenes	ug/kg	4.48	--	37.4	13.4	2.37	7.13
C1-Fluoranthenes/Pyrenes	ug/kg	7.21	5.17	38.5	18.0	3.56	11.0
C1-Fluorenes	ug/kg	2.35	2.55	4.14	2.34	4.08	3.22
C1-Phenanthrenes/Anthracenes	ug/kg	11.4	7.36	37.7	9.54	14.1	13.9
C2-Chrysenes	ug/kg	3.87	--	20.0	6.89	2.42	5.39
C2-Fluorenes	ug/kg	--	--	14.2	5.24	5.85	--
C2-Naphthalenes	ug/kg	10.9	5.87	29.9	10.0	27.8	13.6
C2-Phenanthrenes/Anthracenes	ug/kg	8.60	7.61	32.5	9.43	11.1	10.5
C3-Chrysenes	ug/kg	--	--	13.2	2.75	--	--
C3-Fluorenes	ug/kg	--	--	25.0	8.36	13.1	--
C3-Naphthalenes	ug/kg	7.85	8.82	29.0	16.5	24.4	11.7
C3-Phenanthrenes/Anthracenes	ug/kg	4.20	4.22	23.0	11.2	4.76	4.99
C4-Chrysenes	ug/kg	--	--	7.75	--	--	--
C4-Naphthalenes	ug/kg	6.85	5.92	17.9	7.77	11.9	6.83
C4-Phenanthrenes/Anthracenes	ug/kg	--	5.56	17.2	10.4	2.10	5.06
Perylene	ug/kg	0.680 J	0.820 J	5.55 J	5.47 J	R	0.676 J
Phenanthrene, 2-methyl-	ug/kg	4.42	2.72	17.3	2.27	6.70	6.46
1,1-Biphenyl	ug/kg	2.19	2.53	8.90	1.96	5.13	4.57
18a-Oleanane	ug/kg	--	--	--	--	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	--	--	1.03	--	0.509	--
1-Methylfluorene	ug/kg	1.06	0.925	1.94	0.882	1.89	1.20
1-Methylphenanthrene	ug/kg	2.04	0.783	8.17	0.695	2.16	2.16
2,3,5-Trimethylnaphthalene	ug/kg	1.18	0.975	4.68	0.888	3.28	1.18
2/3-Methyldibenzothiophene(2MDT)	ug/kg	--	--	2.20	--	1.85	1.37
2-Methylanthracene	ug/kg	5.15	4.81	8.46	6.79	4.67	5.08
2-Methylfluoranthene	ug/kg	1.77	8.41	10.6	3.45	0.576	2.01
3,6-Dimethylphenanthrene	ug/kg	0.570	0.407	2.12	0.613	0.910	0.786
3-Methylphenanthrene (3MP)	ug/kg	3.42	1.83	12.5	2.00	5.14	4.73
4-Methyldibenzothiophene(4MDT)	ug/kg	--	--	3.10	--	2.29	1.82
9/4-Methylphenanthrene (9MP)	ug/kg	2.42	1.10	11.1	2.83	2.85	2.75
Benzo(a)Fluoranthene	ug/kg	1.96	0.287	12.4	8.32	0.911	3.24
Benzo(b)fluorene	ug/kg	0.994	1.56	2.7	4.24	0.535	2.39
Benzothiophene	ug/kg	--	--	--	--	0.579	0.483
C1-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C1-Decalins	ug/kg	--	--	--	--	--	--
C1-Dibenzothiophenes	ug/kg	--	--	4.88	--	3.59	2.77

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Soil Data

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

	Location Depths (ft) Sample Date Sample ID	SO-DA-BG-001 0-0.5 ft 8/15/2013 SO-DA-BG-001(0.0-0.5)	SO-DA-BG-002 0-0.5 ft 8/15/2013 SO-DA-BG-002(0.0-0.5)	SO-DA-BG-003 0-0.5 ft 8/15/2013 SO-DA-BG-003(0.0-0.5)	SO-DA-BG-004 0-0.5 ft 8/15/2013 SO-DA-BG-004(0.0-0.5)	SO-DA-BG-005 0-0.5 ft 8/15/2013 SO-DA-BG-005(0.0-0.5)	SO-DA-BG-006 0-0.5 ft 8/15/2013 SO-DA-BG-006(0.0-0.5)
Chemical	**Units**						
C1-Naphthalenes	ug/kg	5.47	2.55	17.5	4.89	14.7	8.01
C1-Naphthobenzothiophenes	ug/kg	3.15	--	15.0	--	4.34	4.66
C20-TAS	ug/kg	--	--	--	--	--	--
C21-TAS	ug/kg	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	--	--	--
C26(20S)-TAS	ug/kg	--	--	--	--	--	--
C27(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20S)-TAS	ug/kg	--	--	--	--	--	--
C29-Hopane	ug/kg	--	26.5	20.2	--	--	--
C2-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C2-Decalins	ug/kg	--	--	--	--	--	--
C2-Dibenzothiophenes	ug/kg	--	--	6.07	--	5.52	--
C2-Fluoranthenes/Pyrenes	ug/kg	12.0	7.10	73.2	51.3	5.47	10.7
C2-Naphthobenzothiophenes	ug/kg	3.19	--	16.8	--	2.75	4.76
C30-Hopane	ug/kg	--	23.2	24.3	--	--	--
C3-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C3-Decalins	ug/kg	--	--	--	--	--	--
C3-Dibenzothiophenes	ug/kg	--	--	5.41	--	4.02	3.23
C3-Fluoranthenes/Pyrenes	ug/kg	4.89	--	31.4	10.7	2.25	4.42
C3-Naphthobenzothiophenes	ug/kg	2.15	--	20.4	--	2.33	4.06
C4-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C4-Decalins	ug/kg	--	--	--	--	--	--
C4-Dibenzothiophenes	ug/kg	--	--	3.32	4.67	2.35	2.39
C4-Fluoranthenes/Pyrenes	ug/kg	3.62	--	36.5	4.01	--	--
C4-Naphthobenzothiophenes	ug/kg	--	--	10.8	--	--	--
Carbazole	ug/kg	3.23	0.860	7.53	2.92	2.35	3.77
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	--	--	--	--	--
Dibenzofuran	ug/kg	5.09	2.27	8.15	3.82	8.75	4.61
Dibenzothiophene	ug/kg	1.13	0.789	3.26	1.03	3.23	3.34
Naphthalene, 2,6-dimethyl-	ug/kg	4.42	2.97	11.4	4.00	14.0	6.48
Naphthobenzothiophene	ug/kg	3.51	--	23.2	7.95	2.35	5.63
Retene	ug/kg	--	1.40	9.28	10.9 J	1.47	1.94
VOCs							
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	10 J	16	10 J	--	8 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	120	170	100	48	140	57
Benzene	ug/kg	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	2 J	3 J	--	4 J	2 J	2 J
Xylene (Total)	ug/kg	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Soil Data

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

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

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

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

	Location	SO-DA-001	SO-DA-001	SO-DA-001	SO-DA-002	SO-DA-002	SO-DA-002	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-004	SO-DA-004
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
	Sample ID	SO-DA-001(0.0-0.5)	SO-DA-001(0.5-1.0)	SO-DA-001(1.0-1.5)	SO-DA-002(0.0-0.5)	SO-DA-002(0.5-1.0)	SO-DA-002(1.0-1.5)	SO-DA-003(0.0-0.5)	SO-DA-DUP-06-081313FD	SO-DA-003(0.5-1.0)	SO-DA-003(1.0-1.5)	SO-DA-004(0.0-0.5)	SO-DA-004(0.5-1.0)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	--	--	--	1.25	3.47	2.12	416	375	8.95	1.94	150	7.34
C2-Fluoranthenes/Pyrenes	ug/kg	12.5	6.39	--	3.55	3.97	7.35	318	271	71.0	4.86	118	36.6
C3-Dibenzothiophenes	ug/kg	--	--	--	1.41	2.08	2.21	418	523	11.2	1.92	289	7.35
C3-Fluoranthenes/Pyrenes	ug/kg	--	3.28	--	2.93	--	4.39	254	304	22.1	2.44	102	22.0
C4-Dibenzothiophenes	ug/kg	--	--	--	2.20	--	1.35	438	648	12.2	2.04	324	6.81
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	2.40	--	--	261	265	29.7	--	122	32.5
Dibenzothiophene	ug/kg	2.38	1.43	0.446	0.802	3.80	1.80	18.6	15.3	9.12	0.933	4.14	4.18
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	4 J	9 J	10 J	--	--	--	19	22	--	--	9 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	130	130	130	45	27	25	160	140	33	--	75	51
Benzene	ug/kg	--	--	--	--	--	--	0.7 J	0.7 J	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	16	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	34	5 J	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	2 J	2 J	--	--	--	--	1 J	1 J	--	--	--	--
Trichloroethene	ug/kg	3 J	4 J	3 J	2 J	3 J	--	2 J	3 J	1 J	2 J	3 J	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

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

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

	Location	SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007	SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
	Sample ID	SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)	SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	6.46	368	2.36	2.13	4.71	0.570	0.594	0.582	0.622	0.639	152	0.933
C2-Fluoranthenes/Pyrenes	ug/kg	38.3	166	34.9	2.62	11.7	0.198 J	0.117 J	--	--	--	72.2	--
C3-Dibenzothiophenes	ug/kg	5.93	501	2.73	1.70	9.05	0.299	0.230 J	--	0.610	--	277	1.15
C3-Fluoranthenes/Pyrenes	ug/kg	21.5	199	21.0	1.86	10.3	0.138 J	--	--	--	--	66.9	--
C4-Dibenzothiophenes	ug/kg	5.64	365	2.10	1.24	10.7	0.137 J	0.162 J	--	--	--	235	--
C4-Fluoranthenes/Pyrenes	ug/kg	31.2	237	17.4	1.57	8.81	0.114 J	--	--	--	--	101	--
Dibenzothiophene	ug/kg	4.79	7.70	1.34	1.36	1.92	0.554	0.713	0.528	0.587	0.640	6.42	0.246
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	12 J	5 J	--	--	--	7 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	11 J	50	33	26	47	150	51	53	12 J	10 J	45	24
Benzene	ug/kg	--	--	--	--	--	--	0.6 J	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	3 J	3 J	4 J	3 J	3 J	--	--	--	--	1 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

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

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

	Location Depths (ft) Sample Date Sample ID	SO-DA-008 1-1.5 ft 8/2/2013 SO-DA-008(1.0-1.5)	SO-DA-009 0-0.5 ft 8/2/2013 SO-DA-009(0.0-0.5)	SO-DA-009 0.5-1 ft 8/2/2013 SO-DA-009(0.5-1.0)	SO-DA-009 1-1.5 ft 8/2/2013 SO-DA-009(1.0-1.5)	SO-DA-010 0-0.5 ft 8/2/2013 SO-DA-010(0.0-0.5)	SO-DA-010 0-0.5 ft 8/2/2013 SO-DA-DUP-02-080213FD	SO-DA-010 0.5-1 ft 8/2/2013 SO-DA-010(0.5-1.0)	SO-DA-010 1-1.5 ft 8/2/2013 SO-DA-010(1.0-1.5)	SO-DA-011 0-0.5 ft 8/2/2013 SO-DA-011(0.0-0.5)	SO-DA-011 0.5-1 ft 8/2/2013 SO-DA-011(0.5-1.0)	SO-DA-011 1-1.5 ft 8/2/2013 SO-DA-011(1.0-1.5)	SO-DA-012 0-0.5 ft 8/1/2013 SO-DA-012(0.0-0.5)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	--	141	5.93	2.61	104	141	9.66	1.41	2.35	1.98	0.444	5.22
C2-Fluoranthenes/Pyrenes	ug/kg	--	100	10.5	2.43	60.8 J	109 J	7.62	2.02	10.0	2.93	--	16.9
C3-Dibenzothiophenes	ug/kg	--	268	14.7	4.91	153 J	278 J	21.5	2.03	3.77	1.18	0.184 J	11.1
C3-Fluoranthenes/Pyrenes	ug/kg	--	86.0	8.18	1.91	44.1 J	96.6 J	6.00	1.33	5.01	1.12	--	8.81
C4-Dibenzothiophenes	ug/kg	--	194	12.2	--	129	273	--	--	4.42	--	--	9.29
C4-Fluoranthenes/Pyrenes	ug/kg	--	90.2	12.2	--	61.5 J	144 J	11.5	--	7.89	--	--	16.2
Dibenzothiophene	ug/kg	0.609	6.66	0.71	0.438	9.22	8.64	0.48	0.615	1.41	2.25	0.559	1.14
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	9 J	--	--	20	42	--	--	35	11	--	8 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	9 J	79	40	9 J	130	290	23	23	230	99	39	110
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	1 J	2 J	--	--	2 J	--	--	--
Trichloroethene	ug/kg	--	--	--	2 J	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

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

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

	Location	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013	SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
	Sample ID	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)	SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	1.62	3.68	4.44	0.188 J	0.236	1.88	2.63	1.03	0.252	10.59	--	2.79
C2-Fluoranthenes/Pyrenes	ug/kg	3.98	9.15	4.32	--	--	13.0	17.8	5.39	--	26.6	12.4	--
C3-Dibenzothiophenes	ug/kg	1.33	3.77	7.38	0.270	--	3.20 J	7.49 J	2.56	--	22.0	--	6.09
C3-Fluoranthenes/Pyrenes	ug/kg	1.84	3.98	2.91	--	--	5.05 J	9.47 J	2.77	--	15.2	9.05	--
C4-Dibenzothiophenes	ug/kg	--	--	5.69	--	--	--	5.53 J	--	--	21.9	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	5.12	4.04	--	--	11.0	12.8	6.43	--	36.4	17.5	--
Dibenzothiophene	ug/kg	1.27	2.11	0.681	0.101 J	0.211	1.26	1.38	1.10	0.240	1.87	1.16	0.857
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	4 J	--	--	--	--	10 J	11 J	4 J	--	--	8 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	67	12 J	31	--	--	220	250	85	30	--	140	66
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	34 J	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	620	3 J	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	120 J	42	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	5 J	--
Trichloroethene	ug/kg	--	--	1 J	1 J	1 J	--	2 J	1 J	2 J	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

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

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location Depths (ft) Sample Date Sample ID	SO-DA-016 0-0.5 ft 8/6/2013 SO-DA-016(0.0-0.5)	SO-DA-016 0.5-1 ft 8/6/2013 SO-DA-016(0.5-1.0)	SO-DA-016 1-1.5 ft 8/6/2013 SO-DA-016(1.0-1.5)	SO-DA-017 0-0.5 ft 8/6/2013 SO-DA-017(0.0-0.5)	SO-DA-017 0.5-1 ft 8/6/2013 SO-DA-017(0.5-1.0)	SO-DA-017 1-1.5 ft 8/6/2013 SO-DA-017(1.0-1.5)	SO-DA-018 0-0.5 ft 8/6/2013 SO-DA-018(0.0-0.5)	SO-DA-018 0-0.5 ft 8/6/2013 SO-DA-DUP-03-080613FD	SO-DA-018 0.5-1 ft 8/6/2013 SO-DA-018(0.5-1.0)	SO-DA-018 1-1.5 ft 8/6/2013 SO-DA-018(1.0-1.5)
Chemical	**Units**										
Metals											
Arsenic	mg/kg	4.03	3.57	3.58	4.47	3.27	2.71	5.66	6.51	3.01	2.98
Barium	mg/kg	101	106	78.8	82.9	102	82.8	88.2	95.4	63.6	86.2
Cadmium	mg/kg	0.303 J	0.254 J	0.185 J	0.221 J	0.173 J	0.148 J	0.260 J	0.222 J	0.143 J	0.183 J
Chromium	mg/kg	13.8 J	13.4 J	13.4 J	14.9 J	13.2 J	12.4 J	16.3 J	17.4 J	11.5 J	12.7 J
Lead	mg/kg	19.7 J	16.5 J	11.7 J	22.2 J	12.5 J	11.5 J	18.3 J	25.8 J	11.8 J	11.3 J
Mercury	mg/kg	0.0372 J	0.0249 J	0.0141 J	0.0326 J	0.0216 J	0.0268 J	0.0235 J	0.0198 J	0.0375 J	0.0265 J
Nickel	mg/kg	10.3	11.1	11.0	10.5	12.0	9.70	11.0	11.7	6.83	8.50
Selenium	mg/kg	0.983 J	1.19 J	--	--	--	--	--	1.00 J	--	1.01 J
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	21.9	21.4	22.2	24.2	22.6	22.0	25.6	27.9	20.3	20.1
Other											
Black Carbon	%	--	NA	NA	--	NA	NA	--	--	NA	NA
Percent Moisture	%	18.1	19.6	20.0	24.3	19.9	20.8	27.4	20.6	19.8	21.7
Total Organic Carbon	%	2.51	NA	NA	1.71	NA	NA	2.01	1.95	NA	NA
Priority PAHs											
1-Methylnaphthalene	ug/kg	4.15	1.78	1.12	3.71	2.01	1.02	3.33	3.43	0.763	1.58
2-Methylnaphthalene	ug/kg	9.66	3.70	2.29	8.75	4.42	2.41	7.73	7.77	1.76	3.54
Acenaphthene	ug/kg	1.24	0.170	0.106	0.758	0.256	0.231	0.554 J	--	0.552	--
Acenaphthylene	ug/kg	4.43	0.620	0.325	1.53	0.293	0.611	0.699 J	3.57 J	0.246	--
Anthracene	ug/kg	7.27	0.451	0.287	1.48	--	--	1.01 J	4.25 J	--	--
Benzo(a)Anthracene	ug/kg	13.7	1.09	0.676	11.5	0.347	0.441	2.77 J	8.90 J	0.280	0.163 J
Benzo(a)Pyrene	ug/kg	18.8	0.929	0.549	5.84 J	0.163	0.331	3.46 J	14.0 J	0.288	0.097 J
Benzo(b)Fluoranthene	ug/kg	71.5	4.09	2.62	29.1	1.23	2.38	10.9 J	33.3 J	1.32	0.728
Benzo(g,h,i)Perylene	ug/kg	28.7	2.01	1.17	13.4 J	0.346	1.24	7.30 J	27.6 J	0.780	0.337
Benzo(j)+(k)Fluoranthene	ug/kg	34.3	1.28	0.819	5.4	0.323	0.718	4.69 J	14.5 J	0.417	0.208
Chrysene/Triphenylene	ug/kg	37.3	3.07	1.74	34.6 J	1.13	2.68	11.7 J	65.4 J	2.20	0.918
Dibenz(a,h)Anthracene	ug/kg	8.21	0.528	0.360	3.90	0.176	0.421	1.97 J	6.52 J	0.258	0.167
Fluoranthene	ug/kg	50.6	3.57	1.94	14.9 J	3.73	3.12	10.8	16.8	3.78	2.00
Fluorene	ug/kg	9.64	2.87	1.66	6.39	8.51	4.49	8.12	6.22	5.67	5.25
Indeno[1,2,3-cd]pyrene	ug/kg	27.1	1.33	0.884	7.43	0.444	0.840	3.80 J	11.5 J	0.396	0.327
Naphthalene	ug/kg	10.4	5.52	2.94	6.01	3.60	1.71	6.61	5.39	1.36	3.15
Phenanthrene	ug/kg	34.0	8.96	4.78	20.5 J	24.6	17.7	24.7	29.9	23.3	14.3
Pyrene	ug/kg	38.3	2.51	1.35	18.1	0.635	1.00	9.74 J	52.0 J	0.914	--
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	42.9	2.93	1.92	21.1 J	0.816	2.65	12.7 J	35.3 J	1.41	0.736
C1-Chrysenes	ug/kg	--	3.55	2.20	82.0	1.28	5.25	27.9 J	152 J	7.74	2.19
C1-Fluoranthenes/Pyrenes	ug/kg	20.5	2.91	1.67	57.5	1.05	3.40	20.2 J	132 J	3.11	0.966
C1-Fluorenes	ug/kg	5.39	1.11	0.873	--	3.25	--	5.32 J	20.3 J	--	2.18
C1-Phenanthrenes/Anthracenes	ug/kg	17.2	5.38	3.57	21.1	7.27	6.06	12.2 J	50.5 J	8.46	7.03
C2-Chrysenes	ug/kg	--	4.16	2.45	120	1.27	7.63	46.1 J	206 J	11.2	3.58
C2-Fluorenes	ug/kg	14.9	--	--	--	--	--	--	--	--	--
C2-Naphthalenes	ug/kg	12.4	4.31	3.00	14.5	7.87	4.83	11.1	16.2	--	--
C2-Phenanthrenes/Anthracenes	ug/kg	20.6	--	--	114	5.80	8.15	29.6 J	261 J	9.59	--
C3-Chrysenes	ug/kg	--	3.98	1.89	75.0	1.05	4.99	33.2 J	167 J	8.06	2.44
C3-Fluorenes	ug/kg	15.0	--	--	--	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	13.8	4.16	2.31	16.4	3.58	3.68	10.3 J	29.0 J	--	--
C3-Phenanthrenes/Anthracenes	ug/kg	21.3	--	--	271	2.66	13.4	77.0 J	604 J	15.2	--
C4-Chrysenes	ug/kg	--	--	--	52.2	--	--	18.8 J	78.3 J	4.25	--
C4-Naphthalenes	ug/kg	13.7	3.47	--	48.1	--	--	31.0 J	103 J	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	16.4	--	--	292	--	11.5	83.4 J	612 J	14.4	--
Perylene	ug/kg	9.10 J	0.415 J	0.236 J	1.55 J	0.069 J	R	R	4.98 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	5.67	1.42	0.931	15.1	2.77	2.46	5.72 J	46.3 J	2.05	1.32

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-016	SO-DA-016	SO-DA-016	SO-DA-017	SO-DA-017	SO-DA-017	SO-DA-018	SO-DA-018	SO-DA-018	SO-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
	Sample ID	SO-DA-016(0.0-0.5)	SO-DA-016(0.5-1.0)	SO-DA-016(1.0-1.5)	SO-DA-017(0.0-0.5)	SO-DA-017(0.5-1.0)	SO-DA-017(1.0-1.5)	SO-DA-018(0.0-0.5)	SO-DA-DUP-03-080613FD	SO-DA-018(0.5-1.0)	SO-DA-018(1.0-1.5)
Chemical	**Units**										
C1-Naphthalenes	ug/kg	7.46	2.96	1.84	7.95	3.47	1.86	5.98	7.19	1.61	3.29
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	9.89	1.88	1.08	100	--	4.65	20.5 J	222 J	4.51	--
C2-Fluoranthenes/Pyrenes	ug/kg	--	5.55	2.45	84.4	1.31	6.09	28.1 J	215 J	6.73	1.88
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	17.9	3.15	0.803	280	--	11.4	86.1 J	693	13.2	--
C3-Fluoranthenes/Pyrenes	ug/kg	--	3.88	--	75.7	--	4.56	24.1 J	202 J	5.66	1.48
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	13.3	1.59	1.04	300	--	9.41	92.7 J	702 J	21.7	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	4.48	--	129	--	4.58	48.8 J	207 J	9.58	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	4.48	1.08	0.696	4.97	2.39	1.64	3.04 J	9.68 J	1.74	1.43
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	9 J	--	--	22	10 J	6 J	15	14	--	4 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	110	39	39	210	97	63	130	140	42	53
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	1 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-020	SO-DA-020	SO-DA-020	SO-DA-021	SO-DA-021
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-019(0.0-0.5)	SO-DA-019(0.5-1.0)	SO-DA-019(1.0-1.5)	SO-DA-019(1.5-2.0)	SO-DA-019(2.0-3.0)	SO-DA-019(3.0-4.0)	SO-DA-020(0.0-0.5)	SO-DA-020(0.5-1.0)	SO-DA-020(1.0-1.5)	SO-DA-021(0.0-0.5)	SO-DA-021(0.5-1.0)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	3.87	3.70	2.75	3.91	3.04	5.65	6.82	5.55	6.88	5.23	3.36
Barium	mg/kg	67.9	91.7	55.8	50.6	58.3	112	117	80.9	43.5	62.1	65.8
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	10.7	13.2	12.1	15.2	12.8	21.5	17.7	12.8	18.3	9.45	12.4
Lead	mg/kg	15.9	13.1	10.4	11.4	10.5	22.5	24.5	13.1	14.5	15.3	11.7
Mercury	mg/kg	0.0287 J	0.0251 J	0.0112 J	--	--	--	0.0502 J	0.0238 J	--	0.0204 J	0.0229 J
Nickel	mg/kg	7.27	8.69	7.63	7.79	7.64	14.0	12.8	8.04	7.55	6.60	8.51
Selenium	mg/kg	--	1.19 J	1.05 J	1.21 J	--	1.70 J	--	--	--	--	1.16 J
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	18.9	23.8	22.2	25.9	23.9	36.0	28.9	24.3	36.0	16.5	22.2
Other												
Black Carbon	%	--	NA	NA	NA	NA	NA	--	NA	NA	--	NA
Percent Moisture	%	14.0	15.7	15.0	14.1	13.5	39.3	23.1	18.5	13.9	17.7	17.2
Total Organic Carbon	%	1.78	NA	NA	NA	NA	NA	1.68	NA	NA	1.61	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	4.34	5.50	0.274 J	NA	NA	NA	1.96	0.607	0.401 J	2.17	1.04
2-Methylnaphthalene	ug/kg	10.1	9.17	0.556 J	NA	NA	NA	4.39	1.21 J	0.761 J	5.48	2.20
Acenaphthene	ug/kg	1.67	1.57	0.159	NA	NA	NA	0.266	0.119	0.096 J	--	0.127
Acenaphthylene	ug/kg	2.43	1.37	0.045	NA	NA	NA	1.19	0.170	0.106	--	0.193
Anthracene	ug/kg	2.04	0.855	--	NA	NA	NA	1.29	0.115 J	0.083 J	--	0.192
Benzo(a)Anthracene	ug/kg	6.57	6.61	0.468	NA	NA	NA	5.11	0.480	0.321	4.42	0.713
Benzo(a)Pyrene	ug/kg	8.25 J	10.1	0.486	NA	NA	NA	2.57	0.109	0.078 J	6.24	0.566
Benzo(b)Fluoranthene	ug/kg	28.9	22.1	1.37	NA	NA	NA	17.7	1.48	0.795	18.5	2.82
Benzo(g,h,i)Perylene	ug/kg	19.1 J	17.3	0.864	NA	NA	NA	5.33	0.393	0.148	11.0	1.01
Benzo(j)+(k)Fluoranthene	ug/kg	5.99	8.22	0.384	NA	NA	NA	4.57	0.316	0.174	7.09	0.753
Chrysene/Triphenylene	ug/kg	59.6	42.5	3.33	NA	NA	NA	17.1	0.986	0.540	35.1	3.87
Dibenz(a,h)Anthracene	ug/kg	4.45	3.95	0.274	NA	NA	NA	1.83	0.163	0.082	3.13	0.310
Fluoranthene	ug/kg	11.4	12.0	0.876	NA	NA	NA	11.3	1.06	0.951	8.49	2.53
Fluorene	ug/kg	3.96	3.81	0.493	NA	NA	NA	2.23	1.17	1.14	--	1.89
Indeno[1,2,3-cd]pyrene	ug/kg	5.63	5.36	0.325	NA	NA	NA	5.05	0.483	0.188	4.60	0.560
Naphthalene	ug/kg	4.27	3.38	--	NA	NA	NA	3.52	1.29	0.652	2.25	1.02
Phenanthrene	ug/kg	22.1	21.2	2.28	NA	NA	NA	12.2	3.64	4.47	11.8	8.68
Pyrene	ug/kg	40.7	36.5	1.54	NA	NA	NA	9.31	0.537	0.282	21.0	2.37
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	34.5	26.8	1.71	NA	NA	NA	9.34	0.842	0.473	21.7	2.14
C1-Chrysenes	ug/kg	104	124	8.79	NA	NA	NA	22.3	1.56	--	80.0	9.76
C1-Fluoranthenes/Pyrenes	ug/kg	94	119	6.56	NA	NA	NA	14.0	0.849	0.482	55.1	6.32
C1-Fluorenes	ug/kg	16.8	30.4	1.10	NA	NA	NA	3.21	0.714	0.653	--	3.16
C1-Phenanthrenes/Anthracenes	ug/kg	85.9	92.2	12.8	NA	NA	NA	15.5	--	--	28.3	15.3
C2-Chrysenes	ug/kg	149	165	12.6	NA	NA	NA	26.2	1.97	--	89.6	10.1
C2-Fluorenes	ug/kg	63.2	--	--	NA	NA	NA	10.2	--	--	--	9.44
C2-Naphthalenes	ug/kg	19.6	33.1	1.44	NA	NA	NA	7.27	2.10	1.63	13.9	6.71
C2-Phenanthrenes/Anthracenes	ug/kg	260	394	31.5	NA	NA	NA	35.2	--	--	125	28.8
C3-Chrysenes	ug/kg	106	104	7.83	NA	NA	NA	17.3	1.91	--	60.8	7.39
C3-Fluorenes	ug/kg	154	--	--	NA	NA	NA	19.7	--	--	--	21.9
C3-Naphthalenes	ug/kg	39.2	69.6	1.62	NA	NA	NA	8.63	1.59	0.785	26.9	12.5
C3-Phenanthrenes/Anthracenes	ug/kg	464	740	45.5	NA	NA	NA	55.0	--	--	278	39.7
C4-Chrysenes	ug/kg	39.5	63.9	4.14	NA	NA	NA	7.80	--	--	38.9	5.32
C4-Naphthalenes	ug/kg	70.9	211	3.73	NA	NA	NA	13.3	1.99	--	52.9	14.7
C4-Phenanthrenes/Anthracenes	ug/kg	347	542	34.4	NA	NA	NA	46.2	--	--	234	25.6
Perylene	ug/kg	3.60 J	4.24	0.309 J	NA	NA	NA	R	R	R	2.10 J	R
Phenanthrene, 2-methyl-	ug/kg	27.1	29.1	2.90	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	3.00	2.39	--	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	28.3	30.9	3.35	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	5.33	8.90	0.784	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	23.1 J	24.7	2.77	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	4.22	7.91	0.135	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	31.7	34.9	3.19	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	6.15	6.76	4.95	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	8.46	9.88	0.753	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	17.1 J	24.1	1.58	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	21.8	23.2	2.30	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	43.7	44.3	4.37	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	33.4	35.9	3.75	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	1.69	3.97	0.431	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	0.423	0.295	0.177	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	4.97	4.68	--	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	76.3	81.0	8.04	NA	NA	NA	8.03	0.704	0.586	25.4	14.3

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-020	SO-DA-020	SO-DA-020	SO-DA-021	SO-DA-021
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-019(0.0-0.5)	SO-DA-019(0.5-1.0)	SO-DA-019(1.0-1.5)	SO-DA-019(1.5-2.0)	SO-DA-019(2.0-3.0)	SO-DA-019(3.0-4.0)	SO-DA-020(0.0-0.5)	SO-DA-020(0.5-1.0)	SO-DA-020(1.0-1.5)	SO-DA-021(0.0-0.5)	SO-DA-021(0.5-1.0)
Chemical	**Units**											
C1-Naphthalenes	ug/kg	9.19	9.33	0.529 J	NA	NA	NA	4.05	1.16	0.739 J	4.89	2.07
C1-Naphthobenzothiophenes	ug/kg	218	258	19.3	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	475	439	29.4	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	14.5	10.9	--	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	233	339	25.8	NA	NA	NA	27.7	1.10	0.734	112	30.5
C2-Fluoranthenes/Pyrenes	ug/kg	131	159	12.5	NA	NA	NA	20.8	1.87	0.925	89.8	8.85
C2-Naphthobenzothiophenes	ug/kg	371	403	25.7	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	662	537	39.4	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	17.8	21.1	--	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	409	762	43.8	NA	NA	NA	57.0	2.48	0.957	270	41.7
C3-Fluoranthenes/Pyrenes	ug/kg	129	157	11.5	NA	NA	NA	18.2	1.32	0.634	77.7	8.70
C3-Naphthobenzothiophenes	ug/kg	312	315	24.5	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	35.6	69.1	--	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	380	589	36.7	NA	NA	NA	54.2	3.31	1.66	256	33.3
C4-Fluoranthenes/Pyrenes	ug/kg	199	183	16.0	NA	NA	NA	30.6	2.38	1.28	111	12.8
C4-Naphthobenzothiophenes	ug/kg	132	169	12.6	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	3.71	3.32	0.394	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	15.8 J	17.9	1.14	NA	NA	NA	2.61	0.492	0.486	6.85	3.39
Naphthalene, 2,6-dimethyl-	ug/kg	10.1	13.7	0.505	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	69.7	98.9	6.58	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	23.6	43.6	2.86	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	15	5 J	7 J	7 J	6 J	8 J	31 J	--	--	9 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	89	53	44	41	41	43	230	51	44	100	27
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	1 J	1 J	--	1 J	1 J	1 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-023	SO-DA-023
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-021(1.0-1.5)	SO-DA-021(1.5-2.0)	SO-DA-021(2.0-3.0)	SO-DA-021(3.0-4.0)	SO-DA-022(0.0-0.5)	SO-DA-DUP-04-080713FD	SO-DA-022(0.5-1.0)	SO-DA-022(1.0-1.5)	SO-DA-023(0.0-0.5)	SO-DA-DUP-05-080813FD
Chemical	**Units**										
Metals											
Arsenic	mg/kg	5.82	NA	NA	NA	6.76	7.19	7.79	6.48	5.05	5.55
Barium	mg/kg	56.0	NA	NA	NA	90.2 J	762 J	89.6	74.6	79.1	78.8
Cadmium	mg/kg	--	NA	NA	NA	--	0.101 J	--	--	--	--
Chromium	mg/kg	12.9	NA	NA	NA	15.2	19.7	22.5	16.3	12.7	12.5
Lead	mg/kg	12.9	NA	NA	NA	18.4	28.3	14.2	13.0	16.3	16.2
Mercury	mg/kg	0.0185 J	NA	NA	NA	0.0360 J	0.0270 J	0.0284 J	0.0263 J	0.0209 J	0.0315 J
Nickel	mg/kg	8.38	NA	NA	NA	9.99	15.6	8.91	9.51	9.67	9.81
Selenium	mg/kg	--	NA	NA	NA	--	4.71	--	--	--	--
Silver	mg/kg	--	NA	NA	NA	--	0.522 J	--	--	--	--
Vanadium	mg/kg	23.8	NA	NA	NA	26.6	36.0	31.7	29.7	21.9	21.2
Other											
Black Carbon	%	NA	NA	NA	NA	--	--	NA	NA	--	--
Percent Moisture	%	19.4	17.1	14.4	14.2	25.5	17.2	10.1	8.0	17.2	15.9
Total Organic Carbon	%	NA	NA	NA	NA	1.76	1.65	NA	NA	1.21	1.22
Priority PAHs											
1-Methylnaphthalene	ug/kg	0.362 J	NA	NA	NA	4.02	2.85	0.501 J	0.397 J	2.75	2.75
2-Methylnaphthalene	ug/kg	0.759 J	NA	NA	NA	7.27	5.42	1.03 J	0.808 J	7.56	8.17
Acenaphthene	ug/kg	--	NA	NA	NA	--	--	0.191	0.183	0.976 J	--
Acenaphthylene	ug/kg	--	NA	NA	NA	1.99 J	--	0.131	0.101	2.01 J	--
Anthracene	ug/kg	--	NA	NA	NA	--	--	--	0.057 J	--	--
Benzo(a)Anthracene	ug/kg	--	NA	NA	NA	--	--	0.294	0.442	6.99	5.29
Benzo(a)Pyrene	ug/kg	--	NA	NA	NA	12.0	11.7	0.142	0.167	12.5	9.09
Benzo(b)Fluoranthene	ug/kg	--	NA	NA	NA	23.0	27.8	0.989	1.03	27.9	25.7
Benzo(g,h,i)Perylene	ug/kg	--	NA	NA	NA	20.4	19.0	0.567	0.804	22.9	26.8
Benzo(j)+(k)Fluoranthene	ug/kg	--	NA	NA	NA	8.63	11.1	0.210	0.213	12.4 J	6.90 J
Chrysene/Triphenylene	ug/kg	--	NA	NA	NA	61.2 J	--	2.05	2.65	47.2	50.0
Dibenz(a,h)Anthracene	ug/kg	--	NA	NA	NA	4.90	4.71	0.196	0.234	5.12	5.87
Fluoranthene	ug/kg	0.767	NA	NA	NA	13.2	13.6	0.861	0.738	12.8	10.8
Fluorene	ug/kg	1.17	NA	NA	NA	4.45 J	--	--	1.38	5.40 J	2.49 J
Indeno[1,2,3-cd]pyrene	ug/kg	--	NA	NA	NA	6.05	5.89	0.292	0.395	9.33	10.1
Naphthalene	ug/kg	0.668	NA	NA	NA	3.01	3.15	1.23	0.913	3.58	4.02
Phenanthrene	ug/kg	4.40	NA	NA	NA	32.1	22.3	4.06	3.32	18.0	13.7
Pyrene	ug/kg	0.322	NA	NA	NA	40.3	38.7	0.787	1.18	29.4	30.2
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	--	NA	NA	NA	34.1	33.3	1.10	1.46	40.2	41.1
C1-Chrysenes	ug/kg	--	NA	NA	NA	162 J	--	5.82	--	114	135
C1-Fluoranthenes/Pyrenes	ug/kg	1.10	NA	NA	NA	159	171	2.50	3.16	92.3	91.6
C1-Fluorenes	ug/kg	0.790	NA	NA	NA	35.3 J	--	0.866	0.881	21.7 J	--
C1-Phenanthrenes/Anthracenes	ug/kg	4.61	NA	NA	NA	143	98.0	--	--	30.1	27.3
C2-Chrysenes	ug/kg	--	NA	NA	NA	223 J	--	5.44	--	146	242
C2-Fluorenes	ug/kg	--	NA	NA	NA	143 J	--	--	--	--	--
C2-Naphthalenes	ug/kg	1.52	NA	NA	NA	50.9	31.2	2.75	2.16	12.6	12.6
C2-Phenanthrenes/Anthracenes	ug/kg	--	NA	NA	NA	446	369	--	--	174	146
C3-Chrysenes	ug/kg	--	NA	NA	NA	163 J	--	4.57	--	114	188
C3-Fluorenes	ug/kg	--	NA	NA	NA	281 J	--	--	--	--	--
C3-Naphthalenes	ug/kg	1.37	NA	NA	NA	160	115	2.45	2.55	27.4	26.1
C3-Phenanthrenes/Anthracenes	ug/kg	--	NA	NA	NA	780	798	--	--	447	355
C4-Chrysenes	ug/kg	--	NA	NA	NA	115 J	--	3.19	--	79.7	113
C4-Naphthalenes	ug/kg	--	NA	NA	NA	328	314	--	--	93.2 J	50.5 J
C4-Phenanthrenes/Anthracenes	ug/kg	--	NA	NA	NA	679	556	--	--	436	343
Perylene	ug/kg	R	NA	NA	NA	4.19 J	--	R	R	--	--
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	1.46	NA	NA	NA	176	120	--	--	26.4	22.7

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-023	SO-DA-023
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-021(1.0-1.5)	SO-DA-021(1.5-2.0)	SO-DA-021(2.0-3.0)	SO-DA-021(3.0-4.0)	SO-DA-022(0.0-0.5)	SO-DA-DUP-04-080713FD	SO-DA-022(0.5-1.0)	SO-DA-022(1.0-1.5)	SO-DA-023(0.0-0.5)	SO-DA-DUP-05-080813FD
Chemical	**Units**										
C1-Naphthalenes	ug/kg	0.714 J	NA	NA	NA	7.17	5.26	0.972 J	0.767 J	6.59	7.13
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	3.68	NA	NA	NA	542	460	--	--	189	129
C2-Fluoranthenes/Pyrenes	ug/kg	2.17	NA	NA	NA	261	248	5.32	6.13	155	163
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	6.70	NA	NA	NA	954	1013	--	--	529	380
C3-Fluoranthenes/Pyrenes	ug/kg	1.84	NA	NA	NA	216	180	4.57	5.37	129	186
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	6.41	NA	NA	NA	822	812	--	--	537	412
C4-Fluoranthenes/Pyrenes	ug/kg	2.71	NA	NA	NA	238	218	6.88	--	167 J	290 J
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	0.623	NA	NA	NA	36.7	23.4	0.588	0.484	9.34	6.46
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	33 J	17	10 J	7 J	31	25
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	29	17 J	19 J	--	240	160	98	79	220	190
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	5 J	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	3 J	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	2 J	--	--	--	--
Trichloroethene	ug/kg	2 J	2 J	2 J	2 J	2 J	--	2 J	3 J	5 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-024	SO-DA-024	SO-DA-024	SO-DA-025	SO-DA-025	SO-DA-025
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-023(0.5-1.0)	SO-DA-023(1.0-1.5)	SO-DA-023(1.5-2.0)	SO-DA-023(2.0-3.0)	SO-DA-023(3.0-4.0)	SO-DA-024(0.0-0.5)	SO-DA-024(0.5-1.0)	SO-DA-024(1.0-1.5)	SO-DA-025(0.0-0.5)	SO-DA-025(0.5-1.0)	SO-DA-025(1.0-1.5)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	5.08	5.59	NA	NA	NA	8.74	2.77	6.77	4.99	5.44	4.89
Barium	mg/kg	78.0	64.5	NA	NA	NA	75.1	92.1	80.9	124	67.0	70.0
Cadmium	mg/kg	--	--	NA	NA	NA	--	--	--	--	--	--
Chromium	mg/kg	14.2	16.2	NA	NA	NA	26.4	45.9	37.6	17.0	15.1	21.9
Lead	mg/kg	11.4	10.9	NA	NA	NA	12.5	15.3	13.9	30.2	12.1	11.0
Mercury	mg/kg	0.0276 J	0.0299 J	NA	NA	NA	0.0136 J	0.0158 J	0.0243 J	0.0287 J	0.0144 J	0.0190 J
Nickel	mg/kg	10.9	10.8	NA	NA	NA	11.2	15.4	13.7	10.8	7.23	8.66
Selenium	mg/kg	--	--	NA	NA	NA	--	--	--	1.92 J	1.41 J	1.16 J
Silver	mg/kg	--	--	NA	NA	NA	--	0.357 J	0.283 J	--	--	--
Vanadium	mg/kg	25.0	28.9	NA	NA	NA	40.7	62.2	56.0	31.6	31.2	44.6
Other												
Black Carbon	%	NA	NA	NA	NA	NA	--	NA	NA	--	NA	NA
Percent Moisture	%	17.0	19.8	22.1	19.8	15.4	13.3	18.3	16.3	35.1	19.8	20.3
Total Organic Carbon	%	NA	NA	NA	NA	NA	0.61	NA	NA	1.48	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	1.02	0.568	NA	NA	NA	2.31	0.862	1.10	3.39	0.717	0.406 J
2-Methylnaphthalene	ug/kg	2.17	1.18 J	NA	NA	NA	4.52	1.82	2.16	5.61	1.34	0.668 J
Acenaphthene	ug/kg	--	--	NA	NA	NA	--	--	--	0.304	--	--
Acenaphthylene	ug/kg	--	--	NA	NA	NA	--	--	--	0.824	--	--
Anthracene	ug/kg	--	--	NA	NA	NA	0.529	--	--	0.860	--	--
Benzo(a)Anthracene	ug/kg	0.471	0.446	NA	NA	NA	2.10	--	--	2.73	0.109 J	0.143 J
Benzo(a)Pyrene	ug/kg	0.426	0.336	NA	NA	NA	2.13	0.046 J	--	3.11	--	--
Benzo(b)Fluoranthene	ug/kg	1.76	1.25	NA	NA	NA	8.18	0.266	0.081 J	11.0	--	--
Benzo(g,h,i)Perylene	ug/kg	2.33	1.72	NA	NA	NA	9.77	0.214	0.067 J	4.92	--	0.137
Benzo(j)+(k)Fluoranthene	ug/kg	0.882	0.485	NA	NA	NA	2.55	0.082 J	0.019 J	3.32	--	--
Chrysene/Triphenylene	ug/kg	3.89	2.69	NA	NA	NA	20.1	0.521	--	18.7	0.145	0.262
Dibenz(a,h)Anthracene	ug/kg	0.515	0.338	NA	NA	NA	1.99	0.071	0.029 J	1.70	--	--
Fluoranthene	ug/kg	1.61	0.883	NA	NA	NA	6.69	1.16	1.58	8.18	0.675	0.572
Fluorene	ug/kg	2.62	1.21	NA	NA	NA	2.86	3.40	5.62	2.62	1.95	1.08
Indeno[1,2,3-cd]pyrene	ug/kg	0.985	0.607	NA	NA	NA	3.56	0.127	0.042 J	2.81	--	0.113
Naphthalene	ug/kg	1.63	0.913	NA	NA	NA	2.09	1.54	1.64	3.84	1.05	0.579
Phenanthrene	ug/kg	7.85	3.43	NA	NA	NA	19.0	9.28	15.3	15.5	5.50	3.51
Pyrene	ug/kg	1.49	1.39	NA	NA	NA	14.1	0.236	0.139	9.47	0.219	0.375
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	2.86	1.94	NA	NA	NA	10.4	0.332	0.106 J	8.48	--	--
C1-Chrysenes	ug/kg	8.85	6.33	NA	NA	NA	51.8	1.46	--	29.7	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	5.42	4.50	NA	NA	NA	36.7	0.765	--	28.0	0.356 J	0.524
C1-Fluorenes	ug/kg	1.89	0.939	NA	NA	NA	13.0	1.32	2.40	5.53	1.03	0.693
C1-Phenanthrenes/Anthracenes	ug/kg	5.51	4.13	NA	NA	NA	61.0	4.62	5.25	38.4	--	--
C2-Chrysenes	ug/kg	--	--	NA	NA	NA	82.5	--	--	38.5	--	--
C2-Fluorenes	ug/kg	--	--	NA	NA	NA	50.4	--	3.22	30.4	--	--
C2-Naphthalenes	ug/kg	4.78	2.51	NA	NA	NA	16.6	3.53	5.10	12.6	3.62	1.98
C2-Phenanthrenes/Anthracenes	ug/kg	13.0	11.2	NA	NA	NA	144	6.64	5.23	103	--	--
C3-Chrysenes	ug/kg	--	--	NA	NA	NA	56.3	--	--	29.2	--	--
C3-Fluorenes	ug/kg	--	--	NA	NA	NA	90.2	--	--	71.0	--	--
C3-Naphthalenes	ug/kg	3.60	2.25	NA	NA	NA	39.9	2.43	3.37	24.7	4.29	2.89
C3-Phenanthrenes/Anthracenes	ug/kg	23.3	18.4	NA	NA	NA	172	4.16	--	153	--	--
C4-Chrysenes	ug/kg	--	--	NA	NA	NA	37.5	--	--	16.6	--	--
C4-Naphthalenes	ug/kg	7.20	3.96	NA	NA	NA	59.8	2.89	3.96	46.1	--	3.38
C4-Phenanthrenes/Anthracenes	ug/kg	22.7	16.7	NA	NA	NA	120	3.26	--	103	--	--
Perylene	ug/kg	R	R	NA	NA	NA	1.12 J	R	R	1.16 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	2.57	1.55	NA	NA	NA	72.7	1.25	0.904	32.9	0.536	0.660

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-024	SO-DA-024	SO-DA-024	SO-DA-025	SO-DA-025	SO-DA-025
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-023(0.5-1.0)	SO-DA-023(1.0-1.5)	SO-DA-023(1.5-2.0)	SO-DA-023(2.0-3.0)	SO-DA-023(3.0-4.0)	SO-DA-024(0.0-0.5)	SO-DA-024(0.5-1.0)	SO-DA-024(1.0-1.5)	SO-DA-025(0.0-0.5)	SO-DA-025(0.5-1.0)	SO-DA-025(1.0-1.5)
Chemical	**Units**											
C1-Naphthalenes	ug/kg	2.07	1.14	NA	NA	NA	4.44	1.74	2.12	5.71	1.31	0.681 J
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	8.66	7.09	NA	NA	NA	165	3.23	1.42	108	0.932	1.43
C2-Fluoranthenes/Pyrenes	ug/kg	9.53	6.94	NA	NA	NA	56.6	1.25	--	45.3	--	0.814
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	23.7	22.4	NA	NA	NA	261	4.19	1.45	183	0.954	2.35
C3-Fluoranthenes/Pyrenes	ug/kg	6.90	5.08	NA	NA	NA	59.1	1.35	--	43.6	--	0.765
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	24.5	18.1	NA	NA	NA	195	3.46	0.827	142	0.906	2.51
C4-Fluoranthenes/Pyrenes	ug/kg	12.3	9.54	NA	NA	NA	89.3	--	--	54.7	--	1.36
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	1.10	0.589	NA	NA	NA	13.4	0.761	1.03	6.14	0.470	0.384
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	9 J	--	--	--	--	5 J	--	--	7 J	--	7 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	80	17 J	20 J	--	--	56	50	56	130	46	74
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	2 J	2 J	3 J	2 J	4 J	5 J	3 J	2 J	--	1 J	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-026	SO-DA-026	SO-DA-026	SO-DA-027	SO-DA-027	SO-DA-027	SO-DA-028	SO-DA-028	SO-DA-028	SO-DA-029
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/11/2013	8/11/2013	8/11/2013	8/8/2013	8/8/2013	8/8/2013	8/11/2013	8/11/2013	8/11/2013	8/11/2013
	Sample ID	SO-DA-026-(0.0-0.5)	SO-DA-026-(0.5-1.0)	SO-DA-026-(1.0-1.5)	SO-DA-027(0.0-0.5)	SO-DA-027(0.5-1.0)	SO-DA-027(1.0-1.5)	SO-DA-028-(0.0-0.5)	SO-DA-028-(0.5-1.0)	SO-DA-028-(1.0-1.5)	SO-DA-029-(0.0-0.5)
Chemical	**Units**										
Metals											
Arsenic	mg/kg	6.72	5.50	7.53	13.8	42.8	39.8	6.28	5.55	7.50	8.58
Barium	mg/kg	93.1	74.5	204	173	77.8	83.9	68.2	42.9	45.6	100
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	16.2	13.7	41.9	33.1	70.8	89.6	15.5	14.9	21.2	25.5
Lead	mg/kg	21.4	16.6	14.7	31.1	32.0	34.6	30.4	10.7	11.6	26.7
Mercury	mg/kg	0.0275 J	0.0134 J	--	0.0304 J	--	0.0151 J	0.0377 J	0.0164 J	0.0134 J	0.0206 J
Nickel	mg/kg	10.9	10.2	30.3	15.9	22.2	37.7	8.31	7.12	9.02	13.1
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	0.345 J	--	1.05 J	--	--	--	--
Vanadium	mg/kg	27.5	22.2	64.5	49.2	52.5	52.8	27.4	27.1	37.8	42.8
Other											
Black Carbon	%	--	NA	NA	--	NA	NA	--	NA	NA	--
Percent Moisture	%	20.8	21.1	22.6	11.3	13.3	15.1	29.6	17.3	15.7	24.0
Total Organic Carbon	%	1.11 J	NA	NA	1.43	NA	NA	1.99	NA	NA	0.86 J
Priority PAHs											
1-Methylnaphthalene	ug/kg	3.30	1.02	1.05	2.86	0.869	0.409 J	2.12	3.37	1.94	4.11
2-Methylnaphthalene	ug/kg	7.37	2.62	2.10	3.76	1.81	0.867 J	4.33	6.65	3.82	8.92
Acenaphthene	ug/kg	0.352	--	--	--	0.081 J	--	--	--	--	0.187
Acenaphthylene	ug/kg	--	--	--	--	0.119	--	--	--	--	0.175
Anthracene	ug/kg	0.303	--	--	--	--	--	0.259	0.079 J	--	--
Benzo(a)Anthracene	ug/kg	0.547	0.094 J	--	1.80	--	0.076 J	0.730	--	--	0.249
Benzo(a)Pyrene	ug/kg	0.283 J	0.020 J	--	1.50	--	--	0.467	--	--	0.055 J
Benzo(b)Fluoranthene	ug/kg	1.53	0.250	--	4.71	0.177 J	0.222	2.28	--	--	0.865
Benzo(g,h,i)Perylene	ug/kg	0.478	0.057 J	--	7.04	0.081 J	0.120	0.815	--	--	0.138
Benzo(j)+(k)Fluoranthene	ug/kg	0.272	0.098 J	--	1.63	0.028 J	0.038 J	0.904	--	--	0.255
Chrysene/Triphenylene	ug/kg	1.02	0.230	--	14.1	--	0.448	1.72	--	--	0.691
Dibenz(a,h)Anthracene	ug/kg	--	0.047 J	--	1.32	0.036 J	0.052 J	--	--	--	0.144
Fluoranthene	ug/kg	2.66	0.602	0.427	6.53	0.913	0.432	2.21	1.15	0.648	1.53
Fluorene	ug/kg	6.92	1.48	2.01	3.73	2.46	0.925	2.15	6.66	3.43	4.27
Indeno[1,2,3-cd]pyrene	ug/kg	0.534	0.102	--	1.91	0.069	0.083	0.966	--	--	0.354
Naphthalene	ug/kg	8.56	3.64	2.98	2.37	1.74	1.16	6.51	6.40	4.40	10.3
Phenanthrene	ug/kg	16.6 J	3.93	4.07	28.3	7.15	3.10	5.01	12.4	6.36	10.4
Pyrene	ug/kg	0.921	0.139	0.077 J	11.4	0.128 J	0.169	1.52	0.149	0.094 J	0.456
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	0.730	0.148 J	--	6.70	0.148 J	0.245	1.163	--	--	0.398
C1-Chrysenes	ug/kg	--	--	--	50.0	--	1.11	--	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	1.02	0.132 J	--	--	--	0.435 J	1.31	--	--	0.451 J
C1-Fluorenes	ug/kg	2.86	0.633	0.834	14.4	1.12	0.601	1.13	2.46	1.90	1.69
C1-Phenanthrenes/Anthracenes	ug/kg	5.54	--	--	81.3	3.88	3.29	3.42	4.29	--	4.85
C2-Chrysenes	ug/kg	--	--	--	65.8	--	--	--	--	--	--
C2-Fluorenes	ug/kg	--	--	--	64.5	1.76	--	--	--	--	--
C2-Naphthalenes	ug/kg	7.53	1.77	--	27.1	3.66	1.27	5.00	8.26	4.77	10.1
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	157	4.46	5.68	--	--	--	4.59
C3-Chrysenes	ug/kg	--	--	--	46.9	--	--	--	--	--	--
C3-Fluorenes	ug/kg	--	--	--	112	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	3.82	1.36	--	71.0	2.15	1.06	3.88	5.79	4.62	7.32
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	192	--	2.95	--	--	--	1.09
C4-Chrysenes	ug/kg	--	--	--	31.5	--	--	--	--	--	--
C4-Naphthalenes	ug/kg	4.33	--	--	83.8	2.53	--	2.17	3.89	--	19.3
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	139	--	2.18	--	--	--	1.35
Perylene	ug/kg	R	R	R	0.800 J	R	R	R	R	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	1.17	0.428	0.310	103	0.905	0.760	--	--	--	1.52

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location	SO-DA-026	SO-DA-026	SO-DA-026	SO-DA-027	SO-DA-027	SO-DA-027	SO-DA-028	SO-DA-028	SO-DA-028	SO-DA-029
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/11/2013	8/11/2013	8/11/2013	8/8/2013	8/8/2013	8/8/2013	8/11/2013	8/11/2013	8/11/2013	8/11/2013
	Sample ID	SO-DA-026-(0.0-0.5)	SO-DA-026-(0.5-1.0)	SO-DA-026-(1.0-1.5)	SO-DA-027(0.0-0.5)	SO-DA-027(0.5-1.0)	SO-DA-027(1.0-1.5)	SO-DA-028-(0.0-0.5)	SO-DA-028-(0.5-1.0)	SO-DA-028-(1.0-1.5)	SO-DA-029-(0.0-0.5)
Chemical	**Units**										
C1-Naphthalenes	ug/kg	6.95	2.37	2.05	4.28	1.74	0.830 J	4.19	6.51	3.75	8.47
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	1.02	0.432	0.429	195	1.41	2.19	--	--	0.334	1.70
C2-Fluoranthenes/Pyrenes	ug/kg	--	0.384 J	--	--	--	1.08	--	--	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	--	0.360	0.563	276	1.62	3.80	--	--	0.246	0.840
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--	--	1.14	--	--	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	0.375	183	0.833	2.62	--	--	--	0.515
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--	--	--	--	--	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	1.12	0.382	0.260	18.9	0.767	0.406	0.481	0.642	0.340	1.23
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	12 J	12	--	8 J	5 J	10 J	11 J	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	130	100	33	110	76	110	230	27	13 J	60
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	4 J	1 J	2 J	2 J	2 J	3 J	--	--	2 J	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location Depths (ft) Sample Date Sample ID	SO-DA-029 0.5-1 ft 8/11/2013 SO-DA-029-(0.5-1.0)	SO-DA-029 1-1.5 ft 8/11/2013 SO-DA-029-(1.0-1.5)	SO-DA-032 0-0.5 ft 8/7/2013 SO-DA-032(0.0-0.5)	SO-DA-032 0.5-1 ft 8/7/2013 SO-DA-032(0.5-1.0)	SO-DA-032 1-1.5 ft 8/7/2013 SO-DA-032(1.0-1.5)
Chemical	**Units**					
Metals						
Arsenic	mg/kg	11.1	9.19	11.0	10.2	8.02
Barium	mg/kg	82.9	79.0	59.9	55.9	73.3
Cadmium	mg/kg	--	--	--	--	--
Chromium	mg/kg	23.2	26.4	20.4	16.9	31.9
Lead	mg/kg	23.4	24.8	15.8	13.2	15.0
Mercury	mg/kg	0.0254 J	0.0284 J	0.0301 J	0.0144 J	0.0237 J
Nickel	mg/kg	10.9	11.9	6.69	6.31	11.1
Selenium	mg/kg	--	--	1.98 J	1.13 J	1.96 J
Silver	mg/kg	--	--	--	--	--
Vanadium	mg/kg	46.5	53.1	37.7	33.3	60.5
Other						
Black Carbon	%	NA	NA	--	NA	NA
Percent Moisture	%	23.0	23.4	33.6	22.9	29.4
Total Organic Carbon	%	NA	NA	1.13	NA	NA
Priority PAHs						
1-Methylnaphthalene	ug/kg	2.30	2.35	1.64	0.475 J	0.516 J
2-Methylnaphthalene	ug/kg	4.67	4.78	3.43	0.866 J	0.966 J
Acenaphthene	ug/kg	0.105	0.083 J	0.322	0.078 J	0.085 J
Acenaphthylene	ug/kg	0.078	0.044	0.918	0.082	0.073
Anthracene	ug/kg	--	--	1.00	0.059 J	0.058 J
Benzo(a)Anthracene	ug/kg	0.070 J	--	2.04	0.125 J	--
Benzo(a)Pyrene	ug/kg	--	0.026 J	3.22	--	--
Benzo(b)Fluoranthene	ug/kg	0.150 J	0.134 J	11.8	--	--
Benzo(g,h,i)Perylene	ug/kg	0.033 J	0.023 J	4.45	--	--
Benzo(j)+(k)Fluoranthene	ug/kg	0.033 J	0.025 J	3.68	--	--
Chrysene/Triphenylene	ug/kg	0.064 J	--	14.7	0.159	--
Dibenz(a,h)Anthracene	ug/kg	0.023 J	0.020 J	1.52	--	--
Fluoranthene	ug/kg	0.562	0.552	6.57	0.505	0.447
Fluorene	ug/kg	2.97	2.84	3.20	1.07	1.20
Indeno[1,2,3-cd]pyrene	ug/kg	0.075	0.055	2.73	--	--
Naphthalene	ug/kg	5.29	6.00	2.84	0.786	0.807
Phenanthrene	ug/kg	5.96	6.00	13.2	3.14	3.23
Pyrene	ug/kg	0.059 J	0.089 J	8.20	0.290	0.278
Forensic PAHs						
Benzo(e)Pyrene	ug/kg	0.068 J	0.074 J	8.12	--	--
C1-Chrysenes	ug/kg	--	--	25.3	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	--	--	22.8	0.326 J	0.463 J
C1-Fluorenes	ug/kg	1.00	0.955	5.41	0.653	0.770
C1-Phenanthrenes/Anthracenes	ug/kg	3.16	--	26.1	--	--
C2-Chrysenes	ug/kg	--	--	30.6	--	--
C2-Fluorenes	ug/kg	--	--	24.5	--	--
C2-Naphthalenes	ug/kg	4.75	4.52	7.61	2.44	2.75
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	64.0	--	--
C3-Chrysenes	ug/kg	--	--	24.6	--	--
C3-Fluorenes	ug/kg	--	--	54.0	--	--
C3-Naphthalenes	ug/kg	2.23	1.78	15.8	4.75	3.35
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	110	--	--
C4-Chrysenes	ug/kg	--	--	13.9	--	--
C4-Naphthalenes	ug/kg	6.43	5.10	30.3	4.24	3.38
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	82.9	--	--
Perylene	ug/kg	R	0.074 J	1.65 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	0.451	0.406	24.2	0.537	0.670

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

	Location Depths (ft) Sample Date Sample ID	SO-DA-029 0.5-1 ft 8/11/2013 SO-DA-029-(0.5-1.0)	SO-DA-029 1-1.5 ft 8/11/2013 SO-DA-029-(1.0-1.5)	SO-DA-032 0-0.5 ft 8/7/2013 SO-DA-032(0.0-0.5)	SO-DA-032 0.5-1 ft 8/7/2013 SO-DA-032(0.5-1.0)	SO-DA-032 1-1.5 ft 8/7/2013 SO-DA-032(1.0-1.5)
Chemical	**Units**					
C1-Naphthalenes	ug/kg	4.53	4.63	3.22	0.852 J	0.942 J
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	0.486	0.391	75.5	0.832	1.23
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	36.1	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	0.220 J	0.306	117	0.944	1.56
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	34.0	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	108	0.551	1.56
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	42.1	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	0.457	0.437	4.26	0.354	0.385
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA
VOCs						
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--
2-Butanone (MEK)	ug/kg	9 J	4 J	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--
Acetone	ug/kg	99	61	83	22	13 J
Benzene	ug/kg	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

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

Notes:

% = percent

-- = Compound was not detected

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

ft = feet

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

ARCADIS

DARSP Sediment Sampling Data Tables

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Drainage Ways Sediment

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

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
Chemical	**Units**						
Metals							
Arsenic	mg/kg	39.8 J	7.34 J	9.94 J	5.41	5.79	7.94
Barium	mg/kg	76.1	68.8	83.4	120	75.4	384
Cadmium	mg/kg	0.318 J	--	--	0.105 J	--	--
Chromium	mg/kg	20.6 J	26.7 J	19.3 J	15.5 J	22.4 J	34.8 J
Lead	mg/kg	59.5	21.4	23.1	16.0	29.7	15.6
Mercury	mg/kg	0.0605 J	--	0.0269 J	0.0381 J	0.0234 J	0.0107 J
Nickel	mg/kg	14.0	12.5	12.0	14.6	6.58	52.8
Selenium	mg/kg	--	--	--	1.05 J	1.23 J	1.81 J
Silver	mg/kg	--	--	--	0.259 J	--	0.269 J
Vanadium	mg/kg	29.6 J	33.4 J	29.0 J	20.5	45.2	47.6
Other							
Black Carbon	%	1.22	--	0.22 J	--	--	--
Percent Moisture	%	25.6	20.1	26.7	27.1	19.6	11.7
Total Organic Carbon	%	4.27	0.69	1.45	1.94	0.42	0.31 J
Priority PAHs							
1-Methylnaphthalene	ug/kg	11.6	3.07	3.56	6.94	1.72	1.21
2-Methylnaphthalene	ug/kg	22.8	5.47	5.92	13.9	3.64	2.41
Acenaphthene	ug/kg	3.64	0.300	0.576	27.1	1.12	--
Acenaphthylene	ug/kg	259	1.68	4.26	34.8	2.14	0.376
Anthracene	ug/kg	264	1.70	6.48	65.1	3.39	--
Benzo(a)Anthracene	ug/kg	272	2.22	6.08	687	80.0	0.185 J
Benzo(a)Pyrene	ug/kg	322	1.93	5.28	1448	65.6	0.153
Benzo(b)Fluoranthene	ug/kg	861	16.2	48.1	4056	--	0.682
Benzo(g,h,i)Perylene	ug/kg	316	4.64	16.2	2121	55.0	0.316
Benzo(j)+(k)Fluoranthene	ug/kg	201	5.88	15.0	1409	215	0.243
Chrysene/Triphenylene	ug/kg	405	6.67	20.3	2601	135	0.438
Dibenz(a,h)Anthracene	ug/kg	113	1.67	4.66	441	19.6	0.100
Fluoranthene	ug/kg	398	14.4	26.4	2671	191	1.65
Fluorene	ug/kg	18.0	2.47	4.34	41.2	4.70	3.85
Indeno[1,2,3-cd]pyrene	ug/kg	313	4.63	13.7	1878	61.5	0.321
Naphthalene	ug/kg	25.0	5.77	7.86	39.8	4.36	2.13
Phenanthrene	ug/kg	111	10.6	18.1	966	63.2	9.05
Pyrene	ug/kg	481	7.14	13.3	2201	149	0.585
Forensic PAHs							
Benzo(e)Pyrene	ug/kg	423	8.10	22.6	1899	94.1	0.362
C1-Chrysenes	ug/kg	292	3.98	8.79	527	28.7	--
C1-Fluoranthenes/Pyrenes	ug/kg	307	4.45	8.91	705	66.5	0.931
C1-Fluorenes	ug/kg	--	--	2.54	15.0	0.973	0.189 J
C1-Phenanthrenes/Anthracenes	ug/kg	115	8.54	12.0	219	22.0	4.66
C2-Chrysenes	ug/kg	140	3.84	6.83	225	9.36	--
C2-Fluorenes	ug/kg	--	--	--	30.1	--	--
C2-Naphthalenes	ug/kg	34.5	10.8	17.2	15.8	4.57	4.23
C2-Phenanthrenes/Anthracenes	ug/kg	109	10.3	12.1	128	15.3	--
C3-Chrysenes	ug/kg	82.2	--	--	107	2.84	--
C3-Fluorenes	ug/kg	--	--	--	38.5	--	--
C3-Naphthalenes	ug/kg	26.6	7.31	16.8	12.2	2.63	3.10
C3-Phenanthrenes/Anthracenes	ug/kg	86.6	6.11	--	94.4	7.81	--
C4-Chrysenes	ug/kg	--	--	--	50.1	--	--
C4-Naphthalenes	ug/kg	19.5	3.24	--	9.70	2.64	3.50
C4-Phenanthrenes/Anthracenes	ug/kg	68.7	--	--	64.3	3.44	--
Perylene	ug/kg	69.8	0.452 J	R	254	8.40 J	--
Phenanthrene, 2-methyl-	ug/kg	32.8	3.17	4.80	111 J	7.56 J	0.875 J
1,1-Biphenyl	ug/kg	19.6	2.94	5.95	8.57	1.49	0.983
18a-Oleanane	ug/kg	--	--	14.1	--	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	1.64	0.225	0.364	2.96	0.318	0.176
1-Methylfluorene	ug/kg	--	--	3.55	4.21	0.492	0.351
1-Methylphenanthrene	ug/kg	16.7	1.50	1.99	57.3	4.77	0.524
2,3,5-Trimethylnaphthalene	ug/kg	3.64	1.17	1.77	2.35	0.420	0.640
2/3-Methyldibenzothiophene(2MDT)	ug/kg	3.37	0.841	0.586	9.72	0.808	0.312
2-Methylanthracene	ug/kg	63.6	4.58	5.28	12.5	3.28	2.72
2-Methylfluoranthene	ug/kg	82.0	1.04	1.91	171	10.2	0.054 J
3,6-Dimethylphenanthrene	ug/kg	6.51	--	0.173	15.4	1.08	--
3-Methylphenanthrene (3MP)	ug/kg	22.9	2.00	3.03	95.9	6.14	0.695
4-Methyldibenzothiophene(4MDT)	ug/kg	5.80	0.669	0.823	9.32	0.975	0.659
9/4-Methylphenanthrene (9MP)	ug/kg	39.5	1.84	3.24	59.1	3.85	0.602
Benzo(a)Fluoranthene	ug/kg	154	1.72	5.58	154	82.9	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Drainage Ways Sediment

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

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
Chemical	**Units**						
Benzo(b)fluorene	ug/kg	24.6	0.34	0.786	158	21.0	0.082 J
Benzothiophene	ug/kg	1.19	--	--	--	0.224	--
C1-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C1-Decalins	ug/kg	--	--	--	--	1.65	--
C1-Dibenzothiophenes	ug/kg	8.51	1.37	1.40	17.3	1.66	0.903
C1-Naphthalenes	ug/kg	23.3	5.76	6.38	14.1	3.39	2.29
C1-Naphthobenzothiophenes	ug/kg	77.8	5.93	--	159	8.81	--
C20-TAS	ug/kg	--	--	--	--	--	--
C21-TAS	ug/kg	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	--	--	--
C26(20S)-TAS	ug/kg	--	--	--	--	--	--
C27(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20S)-TAS	ug/kg	--	--	--	--	--	--
C29-Hopane	ug/kg	--	--	52.6	57.0	4.75	--
C2-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C2-Decalins	ug/kg	--	--	--	--	--	--
C2-Dibenzothiophenes	ug/kg	15.0	1.50	--	21.9	1.60	0.870
C2-Fluoranthenes/Pyrenes	ug/kg	321	9.19	20.5	1011	59.9	0.442 J
C2-Naphthobenzothiophenes	ug/kg	64.1	3.41	--	122	4.50	--
C30-Hopane	ug/kg	--	--	71.7	62.4	4.91	--
C3-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C3-Decalins	ug/kg	--	--	--	--	--	--
C3-Dibenzothiophenes	ug/kg	21.3	--	--	30.6	1.29	0.308
C3-Fluoranthenes/Pyrenes	ug/kg	208	3.75	7.88	302	13.4	--
C3-Naphthobenzothiophenes	ug/kg	69.5	3.02	--	99.8	2.75	--
C4-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C4-Decalins	ug/kg	--	--	--	--	--	--
C4-Dibenzothiophenes	ug/kg	20.7	--	--	21.1	0.615	--
C4-Fluoranthenes/Pyrenes	ug/kg	158	--	--	175	18.7	--
C4-Naphthobenzothiophenes	ug/kg	36.3	--	--	29.4	--	--
Carbazole	ug/kg	45.9	0.982	3.63	176	13.7	0.19
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	--	--	--	3.72	--
Dibenzofuran	ug/kg	16.0	3.62	6.14	38.0	3.52	2.75
Dibenzothiophene	ug/kg	11.3	0.937	1.74	40.2	3.31	1.11
Naphthalene, 2,6-dimethyl-	ug/kg	12.4	3.59	3.68	5.82	2.51	2.38
Naphthobenzothiophene	ug/kg	85.7	2.89	--	390	27.5	--
Retene	ug/kg	15.5	--	--	4.30	0.468	--
TPH							
EOM (Extracted Organic Material)	mg/kg	4915	279	641	1074	104	36 J
i-C15	mg/kg	0.009 J	0.007 J	0.030	0.008 J	0.009 J	0.010 J
i-C16	mg/kg	0.031	0.023	0.023	0.006	0.008	0.003 J
i-C18	mg/kg	0.009	0.010	0.022	0.009	0.007	0.009
n-C10 (n-Decane)	mg/kg	0.016 J	0.008 J	--	0.019 J	--	--
n-C11 (n-Undecane)	mg/kg	0.021	0.014 J	--	0.023	0.006 J	0.006 J
n-C12 (n-Dodecane)	mg/kg	0.035	0.027	0.024	0.019	0.024	0.023
n-C13 (n-Tridecane)	mg/kg	0.029 J	0.016 J	0.010 J	0.014 J	0.017 J	0.021 J
n-C14 (n-Tetradecane)	mg/kg	0.037	0.033	0.032	0.017	0.029	0.041
n-C15 (Pentadecane)	mg/kg	0.020	0.034	0.228	0.071	0.023	0.030
n-C16 (n-Hexadecane)	mg/kg	0.027	0.024	0.071	0.021	0.032	0.048
n-C17 (Heptadecane)	mg/kg	0.029	0.015	0.017	0.072	0.045	0.020
n-C18 (Octadecane)	mg/kg	0.051	0.011	0.072	0.269	0.047	0.041
n-C19 (Nonadecane)	mg/kg	0.048	0.028	0.051	0.013	0.032	0.014
n-C20 (Eicosane)	mg/kg	0.035	0.017	0.014	0.009 J	0.008 J	0.009 J
n-C21 (Heneicosane)	mg/kg	0.090	0.016	0.040	0.234	0.021	0.013
n-C22 (Docosane)	mg/kg	0.076	0.037	0.136	0.044	0.012	0.010
n-C23 (Tricosane)	mg/kg	0.122	0.022	0.083	0.191	0.029	0.017
n-C24 (Tetracosane)	mg/kg	0.030	0.019	0.029	0.063	0.020	0.013
n-C25 (Pentacosane)	mg/kg	0.176	0.055	0.110	0.367	0.045	0.030
n-C26 (Hexacosane)	mg/kg	0.046	0.031	0.027	0.189	0.029	0.014
n-C27 (Heptacosane)	mg/kg	0.252	0.133	0.225	0.493	0.085	0.049
n-C28 (Octacosane)	mg/kg	0.138	0.053	0.024	0.258	0.040	0.008 J
n-C29 (Nonacosane)	mg/kg	2.624	0.344	0.312	0.874	0.180	0.048
n-C30 (n-Triacontane)	mg/kg	0.311	0.089	0.169	0.155	0.025	0.007 J
n-C31 (Hentriacontane)	mg/kg	2.303	0.650	1.364	1.229	0.177	0.042
n-C32 (Dotriacontane)	mg/kg	0.238	0.073	0.147	0.129	0.007 J	0.005 J
n-C33	mg/kg	1.090	0.342	0.601	1.130	0.120	0.034

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Drainage Ways Sediment

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

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
Chemical	**Units**						
n-C34 (Tetratriacontane)	mg/kg	0.107	0.019	0.085	0.112	0.004 J	0.001 J
n-C35	mg/kg	0.198	0.089	0.132	0.542	0.113	0.030
n-C36 (Hexatriacontane)	mg/kg	0.094	0.007 J	0.052	0.096	0.002 J	--
n-C37	mg/kg	0.093	0.046	0.054	0.261	0.069	--
n-C38 (Octatriacontane)	mg/kg	0.098	--	0.043	0.070	--	--
n-C39 (Nonatriacontane)	mg/kg	0.045	--	--	0.177	--	--
n-C40 (Tetracontane)	mg/kg	0.122	--	--	0.142	--	--
n-C9 (Nonane)	mg/kg	--	--	--	--	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.004 J	0.005 J	0.009	0.047	0.004 J	0.009
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.035	0.006	0.025	0.103	0.009	0.020
Total Alkanes	mg/kg	8.7	2.3	4.3	7.5	1.3	0.6
Total Petroleum Hydrocarbons	mg/kg	454	147	214	313	62	15
Total Resolveable Hydrocarbons	mg/kg	77	30	90	106	17	12
Unresolved Complex Mixture	mg/kg	377	117	124	207	45	3
VOCs							
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	5 J	--	6 J	12 J	6 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	69	66	77	120	83	71
Benzene	ug/kg	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	--	2 J	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Lake Conway Sediment Data

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

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
Chemical	**Units**							
Metals								
Arsenic	mg/kg	6.98	5.17	3.60	2.73 J	4.64	3.91	7.18 J
Barium	mg/kg	139	174	90.8	75.9	157	143	113
Cadmium	mg/kg	0.479 J	0.339 J	0.250 J	0.133 J	0.662 J	0.389 J	0.375 J
Chromium	mg/kg	25.3 J	33.8 J	18.0 J	15.0 J	103 J	38.0 J	38.5 J
Lead	mg/kg	34.2	35.8	18.0	13.5	55.5	31.8	31.2
Mercury	mg/kg	0.0663 J	0.0933 J	0.0551 J	0.0430 J	0.204	0.154 J	0.172 J
Nickel	mg/kg	26.1	33.9	17.8	13.5	66.2	23.9	41.4
Selenium	mg/kg	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	0.961	0.679 J	1.33
Vanadium	mg/kg	40.0	46.2 J	23.4 J	19.6 J	31.4 J	26.5 J	19.0
Other								
Black Carbon	%	--	0.22 J	--	--	--	--	--
Percent Moisture	%	55.1	50.3	44.3	31.6	35.4	41.8	52.7
Total Organic Carbon	%	3.18	4.18	1.86	1.92	2.10	2.37	3.94
Priority PAHs								
1-Methylnaphthalene	ug/kg	4.12	4.62	2.61	2.62	5.55	5.54	6.92
2-Methylnaphthalene	ug/kg	9.72	12.7	6.89	6.82	15.1	13.8	19.1
Acenaphthene	ug/kg	3.229	2.27	1.55	1.61	2.49	2.58	3.84
Acenaphthylene	ug/kg	19.2	5.09	2.88	3.18	6.13	7.54	12.0
Anthracene	ug/kg	30.3	10.7 J	6.99	7.32	13.8	15.5	24.7
Benzo(a)Anthracene	ug/kg	49.0	12.7	9.46	10.2	26.6	32.9	49.6
Benzo(a)Pyrene	ug/kg	35.8	10.9	5.27	6.84	32.7	44.2	57.9
Benzo(b)Fluoranthene	ug/kg	101	44.2	21.3	26.3	94.5	138	169
Benzo(g,h,i)Perylene	ug/kg	31.8	15.1	5.84	7.14	30.1	42.3	74.2
Benzo(j)+(k)Fluoranthene	ug/kg	37.2	14.3	4.78	6.08	31.1	30.8	40.9
Chrysene/Triphenylene	ug/kg	64.0	28.1	16.7	17.6	58.6	78.9	109
Dibenz(a,h)Anthracene	ug/kg	9.5	5.99	2.40	2.89	8.96	10.9	2.04
Fluoranthene	ug/kg	88.1	46.7	28.8	28.5	103	152	200
Fluorene	ug/kg	21.3	20.2	10.3	10.2	18.5	20.1	19.5
Indeno[1,2,3-cd]pyrene	ug/kg	31.5	12.0	5.20	6.43	27.4	41.0	6.46
Naphthalene	ug/kg	10.5	10.4	6.10	6.08	10.7	10.9	15.3
Phenanthrene	ug/kg	56.3	51.7	29.8	33.7	77.9	106	63.0
Pyrene	ug/kg	77.0	30.3	24.5	24.9	64.0	81.7	192
Forensic PAHs								
Benzo(e)Pyrene	ug/kg	51.7	19.3	9.60	11.8	51.8	70.4	78.6
C1-Chrysenes	ug/kg	35.7	37.6	27.1	24.2	45.3	50.8	147
C1-Fluoranthenes/Pyrenes	ug/kg	50.6	31.3	19.0	18.8	67.9	63.9	175
C1-Fluorenes	ug/kg	8.14	10.7	5.51	6.04	14.1	14.4	24.2
C1-Phenanthrenes/Anthracenes	ug/kg	27.7	23.1	17.0	17.6	46.0	57.3	77.3
C2-Chrysenes	ug/kg	19.7	18.5	10.5	9.20	33.9	29.7	80.9
C2-Fluorenes	ug/kg	21.4	30.8	13.6	16.7	31.5	34.7	69.3
C2-Naphthalenes	ug/kg	17.0	--	9.95	10.7	25.3	23.8	47.9
C2-Phenanthrenes/Anthracenes	ug/kg	33.5	27.6	21.0	23.8	73.9	82.7	154
C3-Chrysenes	ug/kg	11.4	16.8	7.09	5.24	22.4	17.4	43.6
C3-Fluorenes	ug/kg	--	31.6	14.6	10.9	57.4	52.8	161
C3-Naphthalenes	ug/kg	40.6	--	16.2	18.2	27.9	28.0	58.4
C3-Phenanthrenes/Anthracenes	ug/kg	32.8	26.4	22.6	22.8	103	93.6	270
C4-Chrysenes	ug/kg	8.45	15.7	--	--	12.5	--	20.5
C4-Naphthalenes	ug/kg	23.0	--	11.5	13.3	35.3	41.8	88.8
C4-Phenanthrenes/Anthracenes	ug/kg	25.3	25.5	22.7 J	--	89.4	--	310
Perylene	ug/kg	621 EJ	753	292	316	256	54.8	298
Phenanthrene, 2-methyl-	ug/kg	6.67 J	9.26	4.51 J	4.76 J	16.0 J	18.8 J	31.2
1,1-Biphenyl	ug/kg	4.16	4.47	2.88	2.76	7.55	7.38	7.68
18a-Oleanane	ug/kg	--	--	--	--	--	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	0.826	0.952	0.487	0.413	4.05	8.07	7.84
1-Methylfluorene	ug/kg	4.72	4.71	2.37	2.31	7.39	8.19	8.79
1-Methylphenanthrene	ug/kg	4.80	3.55	3.34	3.39	7.08	10.2	19.9
2,3,5-Trimethylnaphthalene	ug/kg	3.38	2.08	1.71	1.57	4.46	4.17	5.18
2/3-Methyldibenzothiophene(2MDT)	ug/kg	1.61	2.87	1.41	1.29	8.40	11.4	14.3
2-Methylanthracene	ug/kg	7.31	5.87	4.26	4.26	6.01	6.02	14.7
2-Methylfluoranthene	ug/kg	9.66	4.49	2.64	2.79	6.61	8.37	15.9
3,6-Dimethylphenanthrene	ug/kg	1.83	2.62	1.38	1.62	5.98	8.94	23.8
3-Methylphenanthrene (3MP)	ug/kg	7.39	6.95	4.54	4.95	13.5	18.1	28.8
4-Methyldibenzothiophene(4MDT)	ug/kg	2.39	3.49	1.63	1.73	11.7	24.1	19.6
9/4-Methylphenanthrene (9MP)	ug/kg	6.01	6.60	3.13	3.09	10.8	13.4	23.9
Benzo(a)Fluoranthene	ug/kg	14.1	7.33	5.04	5.17	9.30	11.3	16.9

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
Chemical	**Units**							
Benzo(b)fluorene	ug/kg	14.1	9.36	5.39	5.59	13.9	14.8	37.1
Benzothiophene	ug/kg	0.67	0.696	0.455	0.542	1.65	1.65	0.848
C1-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C1-Decalins	ug/kg	--	--	--	--	--	--	--
C1-Dibenzothiophenes	ug/kg	3.8	6.42	2.78	2.71	19.0	34.4	32.8
C1-Naphthalenes	ug/kg	8.8	10.4	6.03	5.99	13.1	12.3	17.7
C1-Naphthobenzothiophenes	ug/kg	14.1	15.5	8.66	9.11	45.8	50.6	72.8
C20-TAS	ug/kg	--	--	--	--	--	--	--
C21-TAS	ug/kg	--	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	--	--	--	--
C26(20S)-TAS	ug/kg	--	--	--	--	--	--	--
C27(20R)-TAS	ug/kg	--	--	--	--	--	--	--
C28(20R)-TAS	ug/kg	--	--	--	--	--	--	--
C28(20S)-TAS	ug/kg	--	--	--	--	--	--	--
C29-Hopane	ug/kg	--	--	--	--	--	--	--
C2-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C2-Decalins	ug/kg	--	--	--	--	--	--	--
C2-Dibenzothiophenes	ug/kg	6.64	13.7	5.23	5.43	40.6	50.6	105
C2-Fluoranthenes/Pyrenes	ug/kg	53.1	36.5	26.7	25.0	98.6	116	216
C2-Naphthobenzothiophenes	ug/kg	16.1	26.1	11.0	10.4	65.6	62.2	110
C30-Hopane	ug/kg	--	--	--	--	--	--	--
C3-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C3-Decalins	ug/kg	--	--	--	--	--	--	--
C3-Dibenzothiophenes	ug/kg	8.65	16.9	7.29	7.59	74.8	68.6	223
C3-Fluoranthenes/Pyrenes	ug/kg	24.5	23.3	10.8	9.08	34.5	37.5	81.7
C3-Naphthobenzothiophenes	ug/kg	14.3	25.8	12.5	15.3	63.1	39.1	87.5
C4-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C4-Decalins	ug/kg	--	--	--	--	--	--	--
C4-Dibenzothiophenes	ug/kg	11.4	17.8	7.24	8.49	78.3	60.8	226
C4-Fluoranthenes/Pyrenes	ug/kg	23.7	30.0	15.5	16.9	35.0	36.1	88.7
C4-Naphthobenzothiophenes	ug/kg	7.97	12.9	6.62	6.40	30.3	18.8	54.7
Carbazole	ug/kg	6.75	5.82	3.46	3.43	5.14	7.27	7.70
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	14.5	10.4	--	--	--	--	--
Dibenzofuran	ug/kg	11.7	11.4	5.76	6.07	10.6	13.3	9.44
Dibenzothiophene	ug/kg	5.4	8.29	2.81	2.86	11.4	17.9	15.3
Naphthalene, 2,6-dimethyl-	ug/kg	8.55	13.1	5.35	5.72	16.1	13.3	28.7
Naphthobenzothiophene	ug/kg	18.6	11.1	8.06	9.05	24.5	32.1	40.6
Retene	ug/kg	9.98	11.1	--	--	15.3	--	319
TPH								
EOM (Extracted Organic Material)	mg/kg	1660	2311	799	837	1813	1930	2630
i-C15	mg/kg	0.017	0.019	0.010 J	0.011 J	0.029	0.022	0.021
i-C16	mg/kg	0.044	0.071	0.007 J	0.046 J	0.024	0.010	0.120
i-C18	mg/kg	0.030	0.035	0.013	0.020	0.085	0.078	0.158
n-C10 (n-Decane)	mg/kg	--	0.024	0.009 J	0.011 J	0.025	0.021 J	0.018 J
n-C11 (n-Undecane)	mg/kg	0.017	0.033	0.016 J	0.016 J	0.030	0.027	0.018
n-C12 (n-Dodecane)	mg/kg	0.087	0.058	0.052	0.056	0.077	0.110	0.027
n-C13 (n-Tridecane)	mg/kg	0.043 J	0.057	0.018 J	0.020 J	0.050	0.054	0.012 J
n-C14 (n-Tetradecane)	mg/kg	0.094	0.111	0.037	0.036	0.069	0.073	0.033
n-C15 (Pentadecane)	mg/kg	0.262	0.448	0.109	0.112	0.178	0.212	0.079
n-C16 (n-Hexadecane)	mg/kg	0.206	0.223	0.085	0.090	0.159	0.205	0.035
n-C17 (Heptadecane)	mg/kg	0.630	0.859	0.226	0.221	0.330	0.512	0.195
n-C18 (Octadecane)	mg/kg	0.710	0.821	0.347	0.340	0.511	0.623	0.506
n-C19 (Nonadecane)	mg/kg	0.900	1.18	0.349	0.389	0.465	0.358	0.304
n-C20 (Eicosane)	mg/kg	0.280	0.382	0.099	0.098	0.111	0.113	0.100
n-C21 (Heneicosane)	mg/kg	2.501	1.95	1.071	0.805	0.770	0.878	0.729
n-C22 (Docosane)	mg/kg	0.242	0.283	0.103	0.095	0.109	0.144	0.098
n-C23 (Tricosane)	mg/kg	1.492	1.97	0.833	0.744	0.360	0.419	1.103
n-C24 (Tetracosane)	mg/kg	0.428	0.517	0.318	0.310	0.157	0.202	1.023
n-C25 (Pentacosane)	mg/kg	1.453	2.51	0.831	0.750	0.721	0.692	0.628
n-C26 (Hexacosane)	mg/kg	0.421	0.629	0.186	0.173	0.192	0.236	0.234
n-C27 (Heptacosane)	mg/kg	2.912	4.45	1.597	1.477	1.512	1.725	2.103
n-C28 (Octacosane)	mg/kg	0.862	1.16	0.314	0.419	0.558	0.619	0.562
n-C29 (Nonacosane)	mg/kg	4.426	4.93	2.964	2.959	3.522	1.556	6.049
n-C30 (n-Triacontane)	mg/kg	0.444	0.578	0.355	0.363	0.403	0.474	0.330
n-C31 (Hentriacontane)	mg/kg	3.698	3.99	2.019	1.783	3.137	1.687	4.927
n-C32 (Dotriacontane)	mg/kg	0.360	0.563	0.176	0.222	0.291	0.388	0.355
n-C33	mg/kg	1.833	2.82	1.177	1.092	1.991	1.817	3.471

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Lake Conway Sediment Data

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

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
Chemical	**Units**							
n-C34 (Tetratriacontane)	mg/kg	0.079	0.207	0.112	0.072	0.074	0.226	0.496
n-C35	mg/kg	1.116	2.19	1.062	0.999	1.737	1.801	1.427
n-C36 (Hexatriacontane)	mg/kg	0.125	0.191	0.148	0.103	0.209	0.382	0.319
n-C37	mg/kg	1.011	2.14	0.889	0.820	0.974	1.553	0.771
n-C38 (Octatriacontane)	mg/kg	0.124	0.140	0.110	0.096	0.086	0.140	0.177
n-C39 (Nonatriacontane)	mg/kg	0.172	0.377	0.093	0.089	0.127	0.252	0.122
n-C40 (Tetracontane)	mg/kg	--	--	--	--	0.151	0.238	0.234
n-C9 (Nonane)	mg/kg	--	--	--	--	--	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.185	0.258	0.080	0.080	0.353	0.367	0.297
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.138	0.063	0.071 J	0.026 J	0.254	0.258	0.097
Total Alkanes	mg/kg	27.3	36.2	15.9	14.9	19.8	18.5	27.2
Total Petroleum Hydrocarbons	mg/kg	467	847	300	301	802	853	1051
Total Resolveable Hydrocarbons	mg/kg	218	315	140	140	165	196	239
Unresolved Complex Mixture	mg/kg	249	532	160	161	637	657	813
VOCs								
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	17 J	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--
Acetone	ug/kg	100	36 J	33 J	22 J	54	35	75
Benzene	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	9 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	9.07 J	7.49 J	2.89 J	9.11 J	10.5 J	7.18 J	12.0 J	11.5 J	10.5 J	7.97	4.65
Barium	mg/kg	78.0	47.6	103	66.5	110	151	204	106	394	54.9	50.3
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	20.2 J	12.7 J	50.8 J	23.7 J	21.0 J	25.3 J	29.0 J	21.2 J	30.0 J	23.1 J	13.7 J
Lead	mg/kg	16.3	9.40	23.4	19.8	10.5 J	21.8 J	23.4	18.7	16.5	14.1 J	10.8 J
Mercury	mg/kg	--	--	0.0231 J	0.0215 J	0.0159 J	0.0234 J	--	--	--	0.0363 J	0.0277 J
Nickel	mg/kg	15.3	8.91	18.8	11.8	13.3	19.6	25.3	20.4	42.8	10.7	10.0
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	1.43 J	1.56 J
Silver	mg/kg	--	--	0.338 J	--	--	--	--	--	--	--	--
Vanadium	mg/kg	24.2 J	19.4 J	38.0 J	31.9 J	29.0 J	33.8 J	35.2 J	23.1 J	36.4 J	30.3 J	22.5 J
Other												
Black Carbon	%	--	NA	--	NA	--	--	NA	--	NA	--	NA
Percent Moisture	%	19.7	18.4	24.5	25.4	23.3	20.8	22.9	26.9	24.1	21.0	14.8
Total Organic Carbon	%	0.3	NA	0.49	NA	0.49	0.53	NA	1.35	NA	0.37	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	2.24	0.731	2.16	1.57	1.10 J	2.78 J	1.20	25.3	0.722	1.11	0.687
2-Methylnaphthalene	ug/kg	2.48	1.44	4.77	3.04	2.16 J	5.22 J	2.35	83.9	1.71	2.37	1.55
Acenaphthene	ug/kg	1.77	0.496	0.260	0.215	0.157 J	0.450 J	0.234	--	0.668	0.114	0.092 J
Acenaphthylene	ug/kg	1.75 J	0.589	2.36	1.64	0.821 J	2.59 J	0.915	10.3	0.324	0.246	0.063
Anthracene	ug/kg	6.79 J	0.646	3.51	2.21	1.322 J	3.63 J	1.69	16.1	0.329	0.480	--
Benzo(a)Anthracene	ug/kg	21.1 J	0.757	2.77	2.27	1.64 J	5.72 J	2.35	29.8	0.522	0.714	0.432
Benzo(a)Pyrene	ug/kg	16.4 J	0.382	2.47	2.56	1.21 J	4.93 J	1.18	47.9	0.377	0.596	0.410
Benzo(b)Fluoranthene	ug/kg	28.2	1.99	14.1	9.14	6.59 J	16.7 J	6.42	130	1.51	2.15	0.794
Benzo(g,h,i)Perylene	ug/kg	13.3 J	0.674	7.90	3.55	3.50 J	8.05 J	1.87	82.0	1.03	1.32	0.355
Benzo(j)+(k)Fluoranthene	ug/kg	10.7 J	0.691	3.94	2.84	1.95 J	5.49 J	2.14	29.5	0.472	0.891	0.323
Chrysene/Triphenylene	ug/kg	23.6 J	1.09	9.25	5.53	5.41 J	14.4 J	6.64	150	2.07	3.24	0.595
Dibenz(a,h)Anthracene	ug/kg	4.73	0.305	2.30	1.17	0.991 J	2.27 J	0.809	19.4	0.257	0.349	0.107
Fluoranthene	ug/kg	51.0	2.07	6.59	5.09	4.83 J	11.2 J	4.23	59.0	3.05	2.04	1.47
Fluorene	ug/kg	2.21	4.42	3.13	3.11	1.88 J	4.72 J	3.46	18.8	4.35	2.17	2.59
Indeno[1,2,3-cd]pyrene	ug/kg	12.9 J	0.686	6.98	3.34	2.76 J	5.79 J	1.95	33.0	0.543	0.646	0.319
Naphthalene	ug/kg	2.60	1.37	3.78	3.01	2.23 J	4.11 J	2.17	25.8	1.64	1.58	1.26
Phenanthrene	ug/kg	35.1	9.97	10.7	9.79	6.58 J	15.4 J	9.38	44.6	13.7	6.43	7.95
Pyrene	ug/kg	41.5	0.758	5.25	3.68	3.61 J	10.1 J	2.72	131	2.16	2.60	0.550
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	14.3 J	0.915	8.26	4.36	4.21 J	9.70 J	3.45	91.4	1.15	2.03	0.447
C1-Chrysenes	ug/kg	14.4	--	7.41	--	7.74 J	21.1 J	--	380	3.21	6.54	--
C1-Fluoranthenes/Pyrenes	ug/kg	16.7	0.720	7.59	--	5.90 J	16.4 J	2.59	417	3.14	7.01	0.416 J
C1-Fluorenes	ug/kg	--	1.65	1.92	1.73	1.55 J	5.22 J	1.53	147	2.94	2.34	1.06
C1-Phenanthrenes/Anthracenes	ug/kg	21.2	5.06	10.8	6.91	8.52 J	20.1 J	6.13	311	9.22	15.0	4.14
C2-Chrysenes	ug/kg	7.49	--	11.5	--	9.31 J	29.5 J	--	486	4.11	9.11	--
C2-Fluorenes	ug/kg	--	--	7.24	--	--	20.0 J	--	478	8.26	12.5	--
C2-Naphthalenes	ug/kg	--	4.47	8.04	6.03	4.19 J	12.5 J	5.96	170	4.84	5.14	2.06
C2-Phenanthrenes/Anthracenes	ug/kg	16.0	--	13.8	6.00	14.7 J	46.9 J	5.91	1069	14.2	31.6	--
C3-Chrysenes	ug/kg	2.63	--	9.36	--	6.11 J	16.8 J	--	395	3.25	6.73	--
C3-Fluorenes	ug/kg	--	--	12.69	--	--	30.4 J	--	813	12.9	17.4	--
C3-Naphthalenes	ug/kg	--	5.89	7.04	5.25	4.79 J	16.8 J	5.61	371	10.5	8.78	1.18
C3-Phenanthrenes/Anthracenes	ug/kg	7.63	--	14.6	--	15.3 J	60.7 J	2.51	1708	14.8	37.8	--
C4-Chrysenes	ug/kg	1.43	--	5.26	--	3.64 J	11.1 J	--	175	--	3.64	--
C4-Naphthalenes	ug/kg	--	--	8.66	--	5.41 J	23.6 J	3.87	908	11.0	14.8	--
C4-Phenanthrenes/Anthracenes	ug/kg	4.92	--	11.8	--	16.2 J	53.6 J	--	1335	10.9	29.3	--
Perylene	ug/kg	4.18 J	0.076 J	0.767 J	0.604 J	0.449 J	1.64 J	0.246 J	38.8	0.149 J	0.242 J	--
Phenanthrene, 2-methyl-	ug/kg	6.59	NA	3.00	NA	1.88 J	6.19 J	NA	98.4	NA	3.70 J	NA
1,1-Biphenyl	ug/kg	0.814	NA	1.86	NA	0.991 J	2.08 J	NA	14.6	NA	1.02	NA
18a-Oleanane	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.303	NA	1.14	NA	0.891 J	4.48 J	NA	145	NA	4.28	NA
1-Methylfluorene	ug/kg	0.727	NA	1.41	NA	0.813 J	3.05 J	NA	67.9	NA	0.78	NA
1-Methylphenanthrene	ug/kg	4.11	NA	2.07	NA	1.25 J	4.08 J	NA	85.8	NA	3.40	NA
2,3,5-Trimethylnaphthalene	ug/kg	0.773	NA	0.882	NA	0.606 J	2.11 J	NA	48.9	NA	1.90	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.771	NA	1.61	NA	1.09 J	4.60 J	NA	141	NA	4.71	NA
2-Methylanthracene	ug/kg	6.97	NA	5.41	NA	5.24 J	5.42 J	NA	25.3	NA	2.87	NA
2-Methylfluoranthene	ug/kg	4.01	NA	0.841	NA	0.657 J	2.02 J	NA	29.2	NA	0.648	NA
3,6-Dimethylphenanthrene	ug/kg	1.10	NA	0.691	NA	0.648 J	2.64 J	NA	67.0	NA	1.64	NA
3-Methylphenanthrene (3MP)	ug/kg	5.90	NA	2.20	NA	1.54 J	4.72 J	NA	84.7	NA	3.27	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	0.920	NA	2.14	NA	1.57 J	6.74 J	NA	213	NA	6.67	NA
9/4-Methylphenanthrene (9MP)	ug/kg	5.10	NA	1.88	NA	1.61 J	6.71 J	NA	126	NA	4.24	NA
Benzo(a)Fluoranthene	ug/kg	3.50	NA	1.51	NA	0.450 J	1.66 J	NA	--	NA	--	NA
Benzo(b)fluorene	ug/kg	0.74	NA	0.410	NA	0.358 J	0.940 J	NA	26.4	NA	0.523	NA
Benzothiophene	ug/kg	0.216	NA	0.322	NA	0.297 J	0.579 J	NA	3.73	NA	0.143	NA
C1-Benzo(b)thiophenes	ug/kg	--	NA	1.70	NA	--	1.84 J	NA	33.4	NA	0.704	NA
C1-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C1-Dibenzothiophenes	ug/kg	1.44	--	3.52	--	2.56 J	11.4 J	--	--	4.27	12.3	0.760

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location Depths (ft) Sample Date Sample ID	SED-DA-001 0-0.5 ft 8/15/2013 SED-DA-001(0.0-0.5)	SED-DA-001 0.5-1 ft 8/15/2013 SED-DA-001(0.5-1.0)	SED-DA-002 0-0.5 ft 8/15/2013 SED-DA-002(0.0-0.5)	SED-DA-002 0.5-1 ft 8/15/2013 SED-DA-002(0.5-1.0)	SED-DA-003 0-0.5 ft 8/15/2013 SED-DA-003(0.0-0.5)	SED-DA-003 0-0.5 ft 8/15/2013 SED-DA-DUP-09-081513FD	SED-DA-003 0.5-1 ft 8/15/2013 SED-DA-003(0.5-1.0)	SED-DA-004 0-0.5 ft 8/15/2013 SED-DA-004(0.0-0.5)	SED-DA-004 0.5-1 ft 8/15/2013 SED-DA-004(0.5-1.0)	SED-DA-005 0-0.5 ft 8/3/2013 SED-DA-005(0.0-0.5)	SED-DA-005 0.5-1 ft 8/3/2013 SED-DA-005(0.5-1.0)
Chemical	**Units**											
C1-Naphthalenes	ug/kg	3.04	1.44	4.50	3.07	2.11 J	5.19 J	2.36	71.0	1.62	2.20	1.45
C1-Naphthobenzothiophenes	ug/kg	4.88	NA	11.4	NA	10.4 J	34.5 J	NA	717	NA	13.8	NA
C20-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C21-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C26(20S)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C27(20R)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C28(20R)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C28(20S)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C29-Hopane	ug/kg	6.97	NA	48.4	NA	28.2 J	71.6 J	NA	850	NA	31.7	NA
C2-Benzo(b)thiophenes	ug/kg	--	NA	1.04	NA	--	2.63 J	NA	55.7	NA	1.28	NA
C2-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C2-Dibenzothiophenes	ug/kg	--	--	8.00	--	9.00 J	32.9 J	--	1210	12.5	26.4	1.18
C2-Fluoranthenes/Pyrenes	ug/kg	17.1	--	10.9	--	8.39 J	28.3 J	4.28	584	4.24	11.9	0.495
C2-Naphthobenzothiophenes	ug/kg	4.91	NA	23.0	NA	18.7 J	62.0 J	NA	1049	NA	21.1	NA
C30-Hopane	ug/kg	9.26	NA	62.5	NA	38.5 J	88.9 J	NA	1036	NA	39.9	NA
C3-Benzo(b)thiophenes	ug/kg	--	NA	--	NA	--	3.73 J	NA	155	NA	2.06	NA
C3-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C3-Dibenzothiophenes	ug/kg	--	--	11.6	--	11.9 J	46.6 J	--	1826	15.7	40.6	1.17
C3-Fluoranthenes/Pyrenes	ug/kg	6.37	--	7.59	--	6.55 J	22.0 J	2.81	445	3.67	10.5	0.217 J
C3-Naphthobenzothiophenes	ug/kg	4.12	NA	25.5	NA	17.6 J	49.0 J	NA	881	NA	16.1	NA
C4-Benzo(b)thiophenes	ug/kg	--	NA	--	NA	--	4.97 J	NA	424	NA	2.36	NA
C4-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C4-Dibenzothiophenes	ug/kg	--	--	9.94	--	14.1 J	55.1 J	1.15	1546	12.5	30.3	--
C4-Fluoranthenes/Pyrenes	ug/kg	4.30	--	8.09	--	9.58 J	25.4 J	--	484	4.76	8.75	--
C4-Naphthobenzothiophenes	ug/kg	2.99	NA	17.4	NA	11.8 J	27.1 J	NA	395	NA	9.44	NA
Carbazole	ug/kg	3.94 J	NA	1.31	NA	0.88 J	1.59 J	NA	--	NA	0.328	--
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
Dibenzofuran	ug/kg	2.34	NA	2.96	NA	1.83 J	4.04 J	NA	14.7	NA	1.52	NA
Dibenzothiophene	ug/kg	1.62	--	1.68	--	0.92 J	2.92 J	--	--	1.28	2.87	0.473
Naphthalene, 2,6-dimethyl-	ug/kg	1.01	NA	2.41	NA	1.10 J	3.19 J	NA	46.8	NA	2.39	NA
Naphthobenzothiophene	ug/kg	5.19	NA	3.70	NA	3.38 J	12.6 J	NA	239	NA	4.96	NA
Retene	ug/kg	1.14	NA	3.38	NA	2.88 J	4.93 J	NA	72.1	NA	2.26	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	112	NA	313	NA	175	409	NA	4919	NA	103	NA
i-C15	mg/kg	--	NA	0.011 J	NA	0.006 J	0.015 J	NA	0.858	NA	--	NA
i-C16	mg/kg	--	NA	0.032	NA	0.007 J	0.026	NA	1.390	NA	--	NA
i-C18	mg/kg	--	NA	0.016	NA	0.009 J	0.022 J	NA	1.133	NA	--	NA
n-C10 (n-Decane)	mg/kg	--	NA	--	NA	--	--	NA	0.048 J	NA	0.004 J	NA
n-C11 (n-Undecane)	mg/kg	0.003 J	NA	0.005 J	NA	0.005 J	0.005 J	NA	0.095	NA	0.002 J	NA
n-C12 (n-Dodecane)	mg/kg	0.011 J	NA	0.028	NA	0.022 J	0.047 J	NA	0.190	NA	0.017 J	NA
n-C13 (n-Tridecane)	mg/kg	0.005 J	NA	0.015 J	NA	0.008 J	0.015 J	NA	0.253	NA	0.012 J	NA
n-C14 (n-Tetradecane)	mg/kg	0.013 J	NA	0.041	NA	0.023 J	0.052 J	NA	0.288	NA	0.025	NA
n-C15 (Pentadecane)	mg/kg	0.009 J	NA	0.032	NA	0.015 J	0.035	NA	0.547	NA	0.021	NA
n-C16 (n-Hexadecane)	mg/kg	0.021	NA	0.052	NA	0.026 J	0.078 J	NA	0.377	NA	0.030	NA
n-C17 (Heptadecane)	mg/kg	0.009	NA	0.032	NA	0.016 J	0.044 J	NA	0.714	NA	0.025	NA
n-C18 (Octadecane)	mg/kg	0.026	NA	0.060	NA	0.031 J	0.067 J	NA	0.513	NA	0.030	NA
n-C19 (Nonadecane)	mg/kg	0.012	NA	0.040	NA	0.015 J	0.036 J	NA	0.566	NA	0.024	NA
n-C20 (Eicosane)	mg/kg	0.005 J	NA	0.024	NA	0.009 J	0.022	NA	0.330	NA	0.018	NA
n-C21 (Heneicosane)	mg/kg	0.055	NA	0.043	NA	0.020 J	0.039 J	NA	0.538	NA	0.016	NA
n-C22 (Docosane)	mg/kg	0.005	NA	0.024	NA	0.007 J	0.014 J	NA	0.153	NA	0.013	NA
n-C23 (Tricosane)	mg/kg	0.013	NA	0.040	NA	0.008 J	0.027	NA	0.498	NA	0.018	NA
n-C24 (Tetracosane)	mg/kg	0.005 J	NA	0.025	NA	0.011	0.015	NA	0.290	NA	0.025	NA
n-C25 (Pentacosane)	mg/kg	0.018	NA	0.052	NA	0.021 J	0.037 J	NA	0.232	NA	0.031	NA
n-C26 (Hexacosane)	mg/kg	0.006 J	NA	0.018	NA	0.007 J	0.016	NA	0.154	NA	0.017	NA
n-C27 (Heptacosane)	mg/kg	0.042	NA	0.121	NA	0.041 J	0.093 J	NA	0.496	NA	0.042	NA
n-C28 (Octacosane)	mg/kg	0.023	NA	0.058	NA	0.018 J	0.035 J	NA	0.627	NA	0.023	NA
n-C29 (Nonacosane)	mg/kg	0.110	NA	0.289	NA	0.076 J	0.174 J	NA	1.199	NA	0.120	NA
n-C30 (n-Triacontane)	mg/kg	0.019	NA	0.041	NA	0.023 J	0.048 J	NA	0.575	NA	0.026	NA
n-C31 (Hentriacontane)	mg/kg	0.138	NA	0.415	NA	0.164	0.273	NA	1.632	NA	0.181	NA
n-C32 (Dotriacontane)	mg/kg	0.017	NA	0.025	NA	0.013 J	0.053 J	NA	0.239	NA	0.013	NA
n-C33	mg/kg	0.433	NA	1.018	NA	0.747	0.767	NA	2.483	NA	0.112	NA
n-C34 (Tetratriacontane)	mg/kg	0.018	NA	0.035	NA	0.028	0.042	NA	0.228	NA	0.007 J	NA
n-C35	mg/kg	0.024	NA	0.047	NA	0.071	0.083	NA	0.316	NA	--	NA
n-C36 (Hexatriacontane)	mg/kg	0.008 J	NA	0.026	NA	0.015 J	0.024	NA	0.185	NA	--	NA
n-C37	mg/kg	0.017 J	NA	0.008 J	NA	0.023	0.026	NA	0.186	NA	--	NA
n-C38 (Octatriacontane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
n-C39 (Nonatriacontane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
n-C40 (Tetracontane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
n-C9 (Nonane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.006 J	NA	0.033	NA	0.017 J	0.069 J	NA	2.326	NA	0.046	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.009	NA	0.036	NA	0.017 J	0.067 J	NA	1.857	NA	0.039	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
Chemical	**Units**											
Total Alkanes	mg/kg	1.1	NA	2.7	NA	1.5 J	2.4 J	NA	21.5	NA	0.9	NA
Total Petroleum Hydrocarbons	mg/kg	21	NA	87	NA	57 J	181 J	NA	2277	NA	59	NA
Total Resolveable Hydrocarbons	mg/kg	6	NA	20	NA	12 J	26 J	NA	162	NA	11	NA
Unresolved Complex Mixture	mg/kg	15	NA	66	NA	45 J	155 J	NA	2115	NA	48	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	2 J	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	8 J	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	--	--	61	19 J	23 J	56	11 J	62 J	23 J	37	--
Benzene	ug/kg	--	--	--	--	--	--	--	2 J	1 J	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	2 J	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	2 J	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	15 J	--	--	--
Trichloroethene	ug/kg	3 J	3 J	3 J	--	3 J	4 J	3 J	3 J	3 J	3 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	15 J	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	4.38	4.43	2.63	6.23	8.58	5.81	3.25	17.3	3.59	3.74	4.16
Barium	mg/kg	45.4	38.0	115	72.0	68.5	64.0	40.4	48.2	48.9	39.5	46.8
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	12.8 J	12.4 J	16.6 J	17.4 J	46.7 J	23.3 J	14.5 J	45.1 J	12.9 J	12.3 J	14.8 J
Lead	mg/kg	7.34 J	11.4 J	7.39 J	14.3 J	10.6 J	20.8 J	8.64 J	23.8 J	7.57 J	8.69 J	18.4 J
Mercury	mg/kg	0.0243 J	0.0196 J	0.0181 J	0.0139 J	0.0224 J	0.0196 J	0.0202 J	0.0214 J	0.0242 J	0.0307 J	0.0183 J
Nickel	mg/kg	7.87	8.49	9.38	6.96	11.8	10.6	7.95	11.0	8.16	7.63	8.35
Selenium	mg/kg	--	--	--	2.03 J	1.54 J	1.01 J	--	3.05	1.60 J	1.15 J	1.65 J
Silver	mg/kg	--	--	--	--	--	0.245 J	--	0.429 J	--	--	--
Vanadium	mg/kg	21.1 J	25.7 J	22.3 J	28.5 J	41.1 J	29.1 J	23.9 J	39.0 J	23.3 J	22.7 J	25.2 J
Other												
Black Carbon	%	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
Percent Moisture	%	15.3	22.7	14.0	14.7	24.4	22.3	14.7	13.6	18.5	14.7	13.1
Total Organic Carbon	%	NA	0.14 J	NA	NA	0.26	0.56	NA	NA	0.25	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.419 J	0.123 J	6.94	0.693	1.16 J	7.69 J	0.500 J	2.64	0.176 J	0.266 J	0.348 J
2-Methylnaphthalene	ug/kg	1.12 J	0.264 J	12.9	1.5	2.31 J	13.6 J	1.06 J	5.19	0.383 J	0.736 J	0.917 J
Acenaphthene	ug/kg	--	--	0.649	--	--	1.39 J	--	0.179	0.039 J	0.056 J	--
Acenaphthylene	ug/kg	--	--	0.736	--	0.319 J	1.55 J	--	0.253	0.105	0.026 J	--
Anthracene	ug/kg	--	--	1.55	--	0.459 J	5.70 J	--	--	0.114 J	0.126	--
Benzo(a)Anthracene	ug/kg	--	--	2.37	--	1.35 J	5.32 J	--	0.939	0.378	0.206	--
Benzo(a)Pyrene	ug/kg	--	--	2.50	--	0.678 J	7.46 J	--	0.654	0.331 J	0.068 J	--
Benzo(b)Fluoranthene	ug/kg	--	--	7.81	--	3.97 J	20.7 J	--	2.78	1.49	0.540	--
Benzo(g,h,i)Perylene	ug/kg	--	--	5.99	--	1.32 J	9.93 J	--	1.78	0.418 J	0.183	--
Benzo(j)+(k)Fluoranthene	ug/kg	--	--	2.43	--	0.786 J	6.88 J	--	0.514	0.589	0.243	--
Chrysene/Triphenylene	ug/kg	--	--	13.6	--	4.60 J	19.8 J	--	4.00	1.08	0.485	--
Dibenz(a,h)Anthracene	ug/kg	--	--	1.49	--	0.478 J	2.48 J	--	0.477	0.171	0.059 J	--
Fluoranthene	ug/kg	0.460	0.195 J	7.79	0.438	2.74 J	16.1 J	0.349	2.42	1.28	0.897	0.346
Fluorene	ug/kg	1.54	0.464	6.77	1.63	1.96 J	8.40 J	1.37	3.11	0.461	0.944	1.26
Indeno[1,2,3-cd]pyrene	ug/kg	--	--	2.37	--	0.898 J	5.21 J	--	0.870	0.527	0.220	--
Naphthalene	ug/kg	0.955	--	4.64	1.06	1.41 J	4.83 J	--	2.06	--	--	1.03
Phenanthrene	ug/kg	4.34	1.47	29.8	4.04	8.37 J	51.9 J	3.44	10.3	1.66	3.14	2.97
Pyrene	ug/kg	0.039 J	0.013 J	15.3	0.055 J	3.39 J	20.4 J	0.042 J	3.77	0.736	0.290	0.049 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	--	--	8.01	--	2.82 J	16.7 J	--	2.49	0.956	0.368	--
C1-Chrysenes	ug/kg	--	--	38.7	--	8.21 J	60.6 J	--	9.83	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	--	--	35.5	--	9.57 J	77.4 J	--	7.76	0.813	0.408 J	--
C1-Fluorenes	ug/kg	0.551	0.143 J	27.2	0.573	5.60 J	40.3 J	0.508	7.82	0.257 J	0.300 J	0.345 J
C1-Phenanthrenes/Anthracenes	ug/kg	--	--	85.2	--	29.7 J	168 J	--	23.2	--	--	--
C2-Chrysenes	ug/kg	--	--	49.5	--	12.1 J	68.5 J	--	13.8	--	--	--
C2-Fluorenes	ug/kg	--	--	84.6	--	19.5 J	110 J	--	21.4	--	--	--
C2-Naphthalenes	ug/kg	1.13	0.498 J	42.2	2.09	6.15 J	53.1 J	1.55	13.4	0.771	0.805	0.570 J
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	152	--	58.0 J	318 J	--	45.3	--	--	--
C3-Chrysenes	ug/kg	--	--	34.3	--	7.87 J	49.9 J	--	9.96	--	--	--
C3-Fluorenes	ug/kg	--	--	95.6	--	29.8 J	151 J	--	26.7	--	--	--
C3-Naphthalenes	ug/kg	0.879	--	92.7	0.885	16.9 J	124 J	1.05	21.2	1.04	0.969	0.601 J
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	173	--	66.1 J	350 J	--	42.1	--	--	--
C4-Chrysenes	ug/kg	--	--	17.2	--	3.76 J	23.0 J	--	5.00	--	--	--
C4-Naphthalenes	ug/kg	--	--	113	--	20.9 J	215 J	--	23.7	--	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	116	--	46.9 J	253 J	--	29.5	--	--	--
Perylene	ug/kg	R	R	0.903 J	R	0.151 J	2.66 J	R	--	1.34 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	--	NA	NA	7.88 J	46.3 J	NA	NA	--	NA	NA
1,1-Biphenyl	ug/kg	NA	--	NA	NA	--	3.02 J	NA	NA	--	NA	NA
18a-Oleanane	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	0.025 J	NA	NA	9.19 J	48.4 J	NA	NA	0.053 J	NA	NA
1-Methylfluorene	ug/kg	NA	0.109 J	NA	NA	5.07 J	30.3 J	NA	NA	0.181 J	NA	NA
1-Methylphenanthrene	ug/kg	NA	--	NA	NA	7.70 J	36.9 J	NA	NA	--	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	--	NA	NA	3.15 J	28.8 J	NA	NA	0.100 J	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	0.059 J	NA	NA	9.89 J	68.0 J	NA	NA	0.158	NA	NA
2-Methylanthracene	ug/kg	NA	--	NA	NA	3.18 J	7.81 J	NA	NA	--	NA	NA
2-Methylfluoranthene	ug/kg	NA	--	NA	NA	1.12 J	5.83 J	NA	NA	0.084 J	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	--	NA	NA	3.15 J	22.1 J	NA	NA	--	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	--	NA	NA	6.69 J	40.3 J	NA	NA	--	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	0.100	NA	NA	14.6 J	90.3 J	NA	NA	0.109	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	--	NA	NA	9.06 J	64.1 J	NA	NA	--	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
Benzo(b)fluorene	ug/kg	NA	--	NA	NA	0.880 J	7.17 J	NA	NA	0.098 J	NA	NA
Benzothiophene	ug/kg	NA	--	NA	NA	0.111 J	0.494 J	NA	NA	--	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	0.820 J	5.24 J	NA	NA	--	NA	NA
C1-Decalins	ug/kg	NA	--	NA	NA	--	3.43 J	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	0.297	0.145	95.8	0.464	26.5 J	163 J	0.414	23.8	0.252	0.369	0.359

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Chemical	**Units**											
C1-Naphthalenes	ug/kg	1.00 J	0.245 J	12.9	1.42	2.19 J	13.4 J	1.02 J	5.08	0.354 J	0.654 J	0.824 J
C1-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	22.5 J	103.4 J	NA	NA	0.850	NA	NA
C20-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	--	NA	NA	27.6 J	229 J	NA	NA	4.45	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	1.76 J	15.7 J	NA	NA	--	NA	NA
C2-Decalins	ug/kg	NA	--	NA	NA	--	5.36 J	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.339	--	183	0.451	48.7 J	335 J	0.422	45.8	0.427	0.610	0.411
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	53.3	--	14.1 J	112 J	--	12.1	1.58	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	28.4 J	167.5 J	NA	NA	1.49	NA	NA
C30-Hopane	ug/kg	NA	--	NA	NA	52.2 J	274 J	NA	NA	5.33	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	--	30.0 J	NA	NA	--	NA	NA
C3-Decalins	ug/kg	NA	--	NA	NA	--	16.1 J	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.192 J	--	245	--	70.9 J	430 J	--	57.3	0.882	--	--
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	32.0	--	12.3 J	80.9 J	--	6.49	0.777	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	23.2 J	113.9 J	NA	NA	1.32	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	--	64.1 J	NA	NA	--	NA	NA
C4-Decalins	ug/kg	NA	--	NA	NA	--	42.2 J	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	104	--	54.5 J	324 J	--	35.1	1.21	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	35.4	--	9.11 J	78.6 J	--	7.01	--	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	12.1 J	42.7 J	NA	NA	--	NA	NA
Carbazole	ug/kg	--	--	--	--	--	--	--	--	--	--	--
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	--	NA	NA	--	1.89 J	NA	NA	--	NA	NA
Dibenzofuran	ug/kg	NA	0.435	NA	NA	1.19 J	4.59 J	NA	NA	0.407	NA	NA
Dibenzothiophene	ug/kg	0.278	0.155	20.9	0.397	6.26 J	32.0 J	0.316	5.23	0.199	0.309	0.299
Naphthalene, 2,6-dimethyl-	ug/kg	NA	0.162 J	NA	NA	2.84 J	22.2 J	NA	NA	0.337	NA	NA
Naphthobenzothiophene	ug/kg	NA	--	NA	NA	10.2 J	35.0 J	NA	NA	0.433	NA	NA
Retene	ug/kg	NA	--	NA	NA	4.13 J	21.8 J	NA	NA	--	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	28 J	NA	NA	121 J	746 J	NA	NA	49 J	NA	NA
i-C15	mg/kg	NA	--	NA	NA	0.009 J	0.113 J	NA	NA	--	NA	NA
i-C16	mg/kg	NA	--	NA	NA	0.009 J	0.075 J	NA	NA	--	NA	NA
i-C18	mg/kg	NA	--	NA	NA	0.024 J	0.253 J	NA	NA	--	NA	NA
n-C10 (n-Decane)	mg/kg	NA	--	NA	NA	0.003 J	--	NA	NA	--	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	--	NA	NA	0.002 J	0.007 J	NA	NA	--	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.009 J	NA	NA	0.012 J	0.021	NA	NA	0.009 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.004 J	NA	NA	0.006 J	0.029 J	NA	NA	0.002 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.007 J	NA	NA	0.017 J	0.090 J	NA	NA	0.004 J	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.005 J	NA	NA	0.016 J	0.100 J	NA	NA	0.020	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.010	NA	NA	0.022 J	0.152 J	NA	NA	0.010	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.004	NA	NA	0.025 J	0.207 J	NA	NA	0.008	NA	NA
n-C18 (Octadecane)	mg/kg	NA	0.008	NA	NA	0.041 J	0.228 J	NA	NA	0.011	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.004 J	NA	NA	0.039 J	0.183 J	NA	NA	0.010	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.003 J	NA	NA	0.021 J	0.139 J	NA	NA	0.003 J	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	0.004 J	NA	NA	0.022 J	0.160 J	NA	NA	0.010	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.005	NA	NA	0.021 J	0.123 J	NA	NA	0.006	NA	NA
n-C23 (Tricosane)	mg/kg	NA	0.008 J	NA	NA	0.027 J	0.140 J	NA	NA	0.010	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.007	NA	NA	0.028 J	0.146 J	NA	NA	0.010	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	0.013	NA	NA	0.035 J	0.160 J	NA	NA	0.016	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	0.007 J	NA	NA	0.018 J	0.098 J	NA	NA	0.010	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	0.022	NA	NA	0.052 J	0.229 J	NA	NA	0.047	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.006 J	NA	NA	0.021 J	0.121 J	NA	NA	0.011 J	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	0.026	NA	NA	0.117 J	0.655 J	NA	NA	0.069	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	0.005 J	NA	NA	0.027 J	0.193 J	NA	NA	0.009 J	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	0.013 J	NA	NA	0.115 J	0.844 J	NA	NA	0.043	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	0.002 J	NA	NA	0.014 J	0.064 J	NA	NA	0.008 J	NA	NA
n-C33	mg/kg	NA	--	NA	NA	0.079 J	1.122 J	NA	NA	0.034	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	--	NA	NA	0.007 J	0.068 J	NA	NA	0.003 J	NA	NA
n-C35	mg/kg	NA	--	NA	NA	--	0.311 J	NA	NA	--	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	--	NA	NA	--	0.068 J	NA	NA	--	NA	NA
n-C37	mg/kg	NA	--	NA	NA	--	0.141 J	NA	NA	--	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	0.003 J	NA	NA	0.069 J	0.483 J	NA	NA	0.003 J	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	0.003 J	NA	NA	0.052 J	0.417 J	NA	NA	0.005	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Chemical	**Units**											
Total Alkanes	mg/kg	NA	0.2	NA	NA	1.0 J	7.1 J	NA	NA	0.4	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	10	NA	NA	69 J	293 J	NA	NA	29	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	3	NA	NA	26 J	81 J	NA	NA	14	NA	NA
Unresolved Complex Mixture	mg/kg	NA	7	NA	NA	43 J	212 J	NA	NA	15	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	1 J	--	--	--
2-Butanone (MEK)	ug/kg	--	9 J	--	--	5 J	7 J	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	11 J	71	12 J	--	78	96	--	--	31	18 J	15 J
Benzene	ug/kg	--	--	--	--	--	--	4 J	1 J	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	1 J	2 J	7	4 J	3 J	2 J	3 J	2 J	2 J	2 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	2 J	1 J	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	4.63	3.11	3.04	14.8	24.7	26.8	2.74	1.34 J	1.79 J	2.34	3.22
Barium	mg/kg	65.1	62.1	36.8	64.6	86.7	70.5	41.3	36.1	33.5	32.5	28.9
Cadmium	mg/kg	0.152 J	--	0.0984 J	--	--	--	--	--	--	--	--
Chromium	mg/kg	13.3	11.5	11.1	31.4 J	65.0 J	42.8 J	12.8 J	9.70 J	10.2 J	9.34 J	11.0 J
Lead	mg/kg	12.0	10.1	9.14	14.8 J	25.1 J	25.8 J	8.04 J	7.32 J	6.41 J	7.29	9.67
Mercury	mg/kg	0.0366 J	0.0333 J	0.0208 J	0.0298 J	0.0353 J	0.0356 J	0.0250 J	0.0180 J	0.0186 J	0.0154 J	--
Nickel	mg/kg	9.39	8.09	6.62	17.3	27.3	21.2	5.44	5.10	4.61	5.03	4.96
Selenium	mg/kg	--	--	1.01 J	3.39	6.11	5.86	--	--	--	--	--
Silver	mg/kg	--	--	--	0.470 J	28.7	34.3	--	--	--	--	--
Vanadium	mg/kg	21.6	20.2	18.8	29.1 J	45.2 J	39.3 J	16.5 J	12.6 J	12.6 J	14.3	16.2
Other												
Black Carbon	%	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
Percent Moisture	%	16.5	15.9	16.0	16.9	18.2	13.8	26.2	15.7	14.3	17.8	14.9
Total Organic Carbon	%	0.31	NA	NA	0.19	NA	NA	0.17	NA	NA	0.18	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.368 J	1.02	0.684	0.882	1.12	1.11	0.262 J	0.470 J	0.368 J	0.559	0.536 J
2-Methylnaphthalene	ug/kg	0.772 J	2.01	1.44	1.87	2.00	2.18	0.496 J	0.844 J	0.706 J	1.12 J	1.49
Acenaphthene	ug/kg	--	0.186	0.15	0.175	0.108	0.115	--	0.107	0.082 J	0.040 J	--
Acenaphthylene	ug/kg	0.155	0.230	0.07	0.403	0.151	0.124	--	0.067	--	0.053	--
Anthracene	ug/kg	--	--	--	0.689	0.144	--	--	0.081 J	0.045 J	--	--
Benzo(a)Anthracene	ug/kg	0.326	--	--	3.79	0.209	0.077 J	--	0.157 J	0.065 J	0.217	0.082 J
Benzo(a)Pyrene	ug/kg	0.139	--	--	5.88	0.189	0.023 J	--	0.116	--	0.079 J	--
Benzo(b)Fluoranthene	ug/kg	1.29	0.26	--	13.6	0.659	0.268	--	0.273	--	0.745	--
Benzo(g,h,i)Perylene	ug/kg	0.325	0.12	--	5.78	0.344	0.097	--	0.140	0.059 J	0.278 J	--
Benzo(j)+(k)Fluoranthene	ug/kg	0.417	0.06 J	--	5.35	0.186	0.052 J	--	0.098 J	--	0.298	--
Chrysene/Triphenylene	ug/kg	1.05	--	--	9.65	0.450	0.162	--	0.165	0.034 J	0.550	0.085 J
Dibenz(a,h)Anthracene	ug/kg	0.124	--	--	1.49	0.101	0.037 J	--	0.040 J	0.041 J	0.084	--
Fluoranthene	ug/kg	1.06	1.21	0.981	11.5	1.00	0.690	0.531	0.624	--	1.24	0.688
Fluorene	ug/kg	0.549	4.01	3.00	1.62	2.06	2.04	1.16	1.41	1.29	1.26	2.09 J
Indeno[1,2,3-cd]pyrene	ug/kg	0.366	--	--	4.67	0.302	0.098	--	0.111	0.041 J	0.290	--
Naphthalene	ug/kg	--	1.74	--	1.55	1.70	1.84	--	0.769	0.808	0.903	1.62
Phenanthrene	ug/kg	2.23	9.72	7.82	7.16	4.40	4.76	3.03	3.35	3.33	3.69	5.23
Pyrene	ug/kg	0.745	0.225	--	9.23	0.732	--	0.236	--	--	0.668	0.052 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.631	--	--	8.02	0.352	0.123 J	--	0.170 J	--	0.421	--
C1-Chrysenes	ug/kg	--	--	--	5.99	0.380	--	--	--	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	0.603	0.335 J	--	7.14	0.664	0.256 J	--	0.243 J	0.086 J	0.235 J	--
C1-Fluorenes	ug/kg	--	1.45	0.938	1.16	0.719	0.772	0.523	0.510	0.467	0.512	0.523 J
C1-Phenanthrenes/Anthracenes	ug/kg	--	4.19	3.70	8.38	--	--	--	--	--	--	--
C2-Chrysenes	ug/kg	--	--	--	5.98	--	--	--	--	--	--	--
C2-Fluorenes	ug/kg	--	--	--	--	--	--	--	--	--	--	--
C2-Naphthalenes	ug/kg	1.46	3.88	2.25	3.39	3.67	3.15	0.774	2.03	1.35	1.91	1.22 J
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	16.8	--	--	--	--	--	--	--
C3-Chrysenes	ug/kg	--	--	--	4.24	--	--	--	--	--	--	--
C3-Fluorenes	ug/kg	--	--	--	--	--	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	1.50	3.45	1.10	6.45	4.30	1.99	2.67	4.36	3.84	1.68	--
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	17.1	--	--	--	--	--	--	--
C4-Chrysenes	ug/kg	--	--	--	2.86	--	--	--	--	--	--	--
C4-Naphthalenes	ug/kg	--	3.98	--	6.27	2.47	1.48	--	1.74	--	1.50	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	13.9	--	--	--	--	--	--	--
Perylene	ug/kg	--	R	R	1.65	0.066 J	0.090 J	0.22 J	0.273 J	0.158 J	--	0.063 J
Phenanthrene, 2-methyl-	ug/kg	--	NA	NA	2.07 J	NA	NA	--	NA	NA	--	NA
1,1-Biphenyl	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.097	NA	NA	1.29	NA	NA	--	NA	NA	0.142	NA
1-Methylfluorene	ug/kg	--	NA	NA	0.312	NA	NA	0.218	NA	NA	0.292	NA
1-Methylphenanthrene	ug/kg	--	NA	NA	1.54	NA	NA	--	NA	NA	--	NA
2,3,5-Trimethylnaphthalene	ug/kg	0.206	NA	NA	0.773	NA	NA	0.174	NA	NA	0.187	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.194	NA	NA	1.62	NA	NA	--	NA	NA	0.112	NA
2-Methylanthracene	ug/kg	--	NA	NA	2.87	NA	NA	--	NA	NA	--	NA
2-Methylfluoranthene	ug/kg	0.084 J	NA	NA	0.791	NA	NA	--	NA	NA	0.054 J	NA
3,6-Dimethylphenanthrene	ug/kg	--	NA	NA	0.730	NA	NA	--	NA	NA	--	NA
3-Methylphenanthrene (3MP)	ug/kg	--	NA	NA	1.53	NA	NA	--	NA	NA	--	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	0.282	NA	NA	2.36	NA	NA	--	NA	NA	0.212	NA
9/4-Methylphenanthrene (9MP)	ug/kg	--	NA	NA	1.72	NA	NA	--	NA	NA	--	NA
Benzo(a)Fluoranthene	ug/kg	--	NA	NA	1.06	NA	NA	--	NA	NA	--	NA
Benzo(b)fluorene	ug/kg	0.069 J	NA	NA	1.00	NA	NA	--	NA	NA	0.044 J	NA
Benzothiophene	ug/kg	0.142	NA	NA	0.076 J	NA	NA	--	NA	NA	--	NA
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C1-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C1-Dibenzothiophenes	ug/kg	0.451	0.800	0.623	4.15	0.358	0.351	--	0.111	0.091	0.401	0.369

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Chemical	**Units**											
C1-Naphthalenes	ug/kg	0.721 J	1.64	1.15	1.74	1.99	2.11	0.409 J	0.841 J	0.688 J	1.09	1.25
C1-Naphthobenzothiophenes	ug/kg	--	NA	NA	8.01	NA	NA	--	NA	NA	0.337	NA
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C29-Hopane	ug/kg	--	NA	NA	22.1	NA	NA	--	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C2-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	0.515	0.883	0.531	10.8	0.490	0.413	--	0.148 J	0.126 J	0.433	0.322
C2-Fluoranthenes/Pyrenes	ug/kg	1.419	--	--	12.2	0.662	--	--	--	--	0.398 J	--
C2-Naphthobenzothiophenes	ug/kg	--	NA	NA	12.8	NA	NA	--	NA	NA	0.452	NA
C30-Hopane	ug/kg	--	NA	NA	26.4	NA	NA	--	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C3-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	0.447	1.03	0.322	17.3	0.593	0.325	--	0.156 J	0.092 J	0.292	--
C3-Fluoranthenes/Pyrenes	ug/kg	0.566	--	--	8.32	0.286 J	--	--	--	--	0.140 J	--
C3-Naphthobenzothiophenes	ug/kg	--	NA	NA	10.1	NA	NA	--	NA	NA	0.429	NA
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C4-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	--	--	--	14.0	0.588	0.154 J	--	--	--	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	6.51	--	--	--	--	--	--	--
C4-Naphthobenzothiophenes	ug/kg	--	NA	NA	6.60	NA	NA	--	NA	NA	--	NA
Carbazole	ug/kg	0.265	NA	NA	1.15	NA	NA	0.073 J	NA	NA	0.047 J	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
Dibenzofuran	ug/kg	0.625	NA	NA	1.31	NA	NA	1.01	NA	NA	0.958	NA
Dibenzothiophene	ug/kg	0.360	0.909	0.651	1.17	0.501	0.479	0.162	0.182	0.157	0.419	0.406
Naphthalene, 2,6-dimethyl-	ug/kg	0.603	NA	NA	1.72	NA	NA	0.359	NA	NA	0.955	NA
Naphthobenzothiophene	ug/kg	0.366	NA	NA	4.34	NA	NA	--	NA	NA	0.353	NA
Retene	ug/kg	--	NA	NA	0.989	NA	NA	--	NA	NA	--	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	64 J	NA	NA	75 J	NA	NA	30 J	NA	NA	50 J	NA
i-C15	mg/kg	--	NA	NA	--	NA	NA	0.006 J	NA	NA	0.007 J	NA
i-C16	mg/kg	--	NA	NA	--	NA	NA	0.019	NA	NA	0.002 J	NA
i-C18	mg/kg	--	NA	NA	--	NA	NA	0.006	NA	NA	0.006	NA
n-C10 (n-Decane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C11 (n-Undecane)	mg/kg	--	NA	NA	0.004 J	NA	NA	0.004 J	NA	NA	--	NA
n-C12 (n-Dodecane)	mg/kg	0.007 J	NA	NA	0.018 J	NA	NA	0.012 J	NA	NA	0.018 J	NA
n-C13 (n-Tridecane)	mg/kg	0.002 J	NA	NA	0.008 J	NA	NA	0.007 J	NA	NA	0.009 J	NA
n-C14 (n-Tetradecane)	mg/kg	0.004 J	NA	NA	0.015	NA	NA	0.013	NA	NA	0.017	NA
n-C15 (Pentadecane)	mg/kg	0.003 J	NA	NA	0.012 J	NA	NA	0.003 J	NA	NA	0.008 J	NA
n-C16 (n-Hexadecane)	mg/kg	0.008	NA	NA	0.020	NA	NA	0.017	NA	NA	0.023	NA
n-C17 (Heptadecane)	mg/kg	0.005	NA	NA	0.018	NA	NA	0.008	NA	NA	0.062	NA
n-C18 (Octadecane)	mg/kg	0.016	NA	NA	0.029	NA	NA	0.012	NA	NA	0.014	NA
n-C19 (Nonadecane)	mg/kg	0.010	NA	NA	0.019	NA	NA	0.006	NA	NA	0.010	NA
n-C20 (Eicosane)	mg/kg	0.002 J	NA	NA	0.006 J	NA	NA	0.003 J	NA	NA	0.003 J	NA
n-C21 (Heneicosane)	mg/kg	0.010	NA	NA	0.018	NA	NA	0.003 J	NA	NA	0.012	NA
n-C22 (Docosane)	mg/kg	0.005	NA	NA	0.007	NA	NA	0.005	NA	NA	0.004	NA
n-C23 (Tricosane)	mg/kg	0.011	NA	NA	0.019	NA	NA	0.007 J	NA	NA	0.007 J	NA
n-C24 (Tetracosane)	mg/kg	0.009	NA	NA	0.012	NA	NA	0.006	NA	NA	0.006	NA
n-C25 (Pentacosane)	mg/kg	0.017	NA	NA	0.028	NA	NA	0.008	NA	NA	0.009	NA
n-C26 (Hexacosane)	mg/kg	0.010	NA	NA	0.012	NA	NA	0.010	NA	NA	0.005 J	NA
n-C27 (Heptacosane)	mg/kg	0.026	NA	NA	0.058	NA	NA	0.012	NA	NA	0.015	NA
n-C28 (Octacosane)	mg/kg	0.012	NA	NA	0.025	NA	NA	0.022	NA	NA	0.005 J	NA
n-C29 (Nonacosane)	mg/kg	0.091	NA	NA	0.203	NA	NA	0.028	NA	NA	0.021 J	NA
n-C30 (n-Triacontane)	mg/kg	0.012 J	NA	NA	0.015	NA	NA	0.021	NA	NA	0.004 J	NA
n-C31 (Hentriacontane)	mg/kg	0.050	NA	NA	0.179	NA	NA	0.014 J	NA	NA	0.019	NA
n-C32 (Dotriacontane)	mg/kg	0.006 J	NA	NA	0.018	NA	NA	0.013	NA	NA	0.003 J	NA
n-C33	mg/kg	0.048	NA	NA	0.176	NA	NA	0.011 J	NA	NA	0.015 J	NA
n-C34 (Tetratriacontane)	mg/kg	0.003 J	NA	NA	0.005 J	NA	NA	0.010 J	NA	NA	0.002 J	NA
n-C35	mg/kg	--	NA	NA	0.042	NA	NA	0.009 J	NA	NA	0.005 J	NA
n-C36 (Hexatriacontane)	mg/kg	--	NA	NA	--	NA	NA	0.007 J	NA	NA	--	NA
n-C37	mg/kg	--	NA	NA	--	NA	NA	0.006 J	NA	NA	--	NA
n-C38 (Octatriacontane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C39 (Nonatriacontane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C40 (Tetracontane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C9 (Nonane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.003 J	NA	NA	0.021	NA	NA	0.003 J	NA	NA	0.004 J	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.005	NA	NA	0.017	NA	NA	0.006	NA	NA	0.001 J	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Chemical	**Units**											
Total Alkanes	mg/kg	0.4	NA	NA	1.0	NA	NA	0.3	NA	NA	0.3	NA
Total Petroleum Hydrocarbons	mg/kg	51	NA	NA	54	NA	NA	19	NA	NA	12.5	NA
Total Resolveable Hydrocarbons	mg/kg	14	NA	NA	8	NA	NA	1.9	NA	NA	3.02	NA
Unresolved Complex Mixture	mg/kg	37	NA	NA	45	NA	NA	17	NA	NA	9.51	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	4 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	23	24	8 J	29	--	16 J	11 J	--	--	71	37
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	5 J	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	3 J	--	2 J	2 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location Depths (ft) Sample Date Sample ID	SED-DA-012 1-1.5 ft 8/4/2013 SED-DA-012(1.0-1.5)	SED-DA-013 0-0.5 ft 8/4/2013 SED-DA-013(0.0-0.5)	SED-DA-013 0.5-1 ft 8/4/2013 SED-DA-013(0.5-1.0)	SED-DA-013 1-1.5 ft 8/4/2013 SED-DA-013(1.0-1.5)
Chemical	**Units**				
Metals					
Arsenic	mg/kg	2.78	2.18 J	4.51	3.30
Barium	mg/kg	29.8	45.1	43.4	51.3
Cadmium	mg/kg	--	--	--	--
Chromium	mg/kg	10.3 J	9.14 J	10.2 J	12.1 J
Lead	mg/kg	6.75	8.55	7.73	7.95
Mercury	mg/kg	0.0156 J	0.0119 J	0.0124 J	--
Nickel	mg/kg	5.18	4.96	5.47	7.12
Selenium	mg/kg	--	--	--	--
Silver	mg/kg	--	--	--	--
Vanadium	mg/kg	16.2	12.5	15.9	18.7
Other					
Black Carbon	%	NA	--	NA	NA
Percent Moisture	%	15.3	16.7	15.5	16.2
Total Organic Carbon	%	NA	0.21	NA	NA
Priority PAHs					
1-Methylnaphthalene	ug/kg	0.848	0.669	0.828	0.83
2-Methylnaphthalene	ug/kg	2.12	1.20 J	1.46	1.93
Acenaphthene	ug/kg	--	--	0.063 J	0.25
Acenaphthylene	ug/kg	--	--	0.072	0.05
Anthracene	ug/kg	--	0.048 J	--	--
Benzo(a)Anthracene	ug/kg	0.089 J	0.084 J	0.103 J	0.063 J
Benzo(a)Pyrene	ug/kg	--	0.049 J	--	--
Benzo(b)Fluoranthene	ug/kg	--	0.258	--	--
Benzo(g,h,i)Perylene	ug/kg	--	0.097	--	--
Benzo(j)+(k)Fluoranthene	ug/kg	--	0.081 J	--	--
Chrysene/Triphenylene	ug/kg	0.067 J	0.172	0.073 J	0.032 J
Dibenz(a,h)Anthracene	ug/kg	--	0.034 J	--	--
Fluoranthene	ug/kg	0.916	0.493	0.868	1.85
Fluorene	ug/kg	2.58	1.24	2.54	5.57
Indeno[1,2,3-cd]pyrene	ug/kg	--	0.087	--	--
Naphthalene	ug/kg	1.61	1.32	1.17	1.23
Phenanthrene	ug/kg	7.29	2.96	6.42	14.9
Pyrene	ug/kg	0.076 J	0.492	0.152	0.048 J
Forensic PAHs					
Benzo(e)Pyrene	ug/kg	--	0.150 J	--	--
C1-Chrysenes	ug/kg	--	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	--	0.360 J	--	--
C1-Fluorenes	ug/kg	1.01	0.531	0.887	1.80
C1-Phenanthrenes/Anthracenes	ug/kg	4.16	--	--	5.23
C2-Chrysenes	ug/kg	--	--	--	--
C2-Fluorenes	ug/kg	--	--	--	--
C2-Naphthalenes	ug/kg	2.44	2.72	3.67	3.39
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	--
C3-Chrysenes	ug/kg	--	--	--	--
C3-Fluorenes	ug/kg	--	--	--	--
C3-Naphthalenes	ug/kg	1.73	2.60	4.47	2.04
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	--
C4-Chrysenes	ug/kg	--	--	--	--
C4-Naphthalenes	ug/kg	--	--	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	--
Perylene	ug/kg	R	1.03 J	0.235 J	R
Phenanthrene, 2-methyl-	ug/kg	NA	--	NA	NA
1,1-Biphenyl	ug/kg	NA	--	NA	NA
18a-Oleanane	ug/kg	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	0.158	NA	NA
1-Methylfluorene	ug/kg	NA	0.328	NA	NA
1-Methylphenanthrene	ug/kg	NA	--	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	0.323	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	0.144	NA	NA
2-Methylanthracene	ug/kg	NA	--	NA	NA
2-Methylfluoranthene	ug/kg	NA	0.032 J	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	--	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	--	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	0.202	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	--	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	--	NA	NA
Benzo(b)fluorene	ug/kg	NA	0.029 J	NA	NA
Benzothiophene	ug/kg	NA	--	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C1-Decalins	ug/kg	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	0.575	0.434	0.434	0.507

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location Depths (ft) Sample Date Sample ID	SED-DA-012 1-1.5 ft 8/4/2013 SED-DA-012(1.0-1.5)	SED-DA-013 0-0.5 ft 8/4/2013 SED-DA-013(0.0-0.5)	SED-DA-013 0.5-1 ft 8/4/2013 SED-DA-013(0.5-1.0)	SED-DA-013 1-1.5 ft 8/4/2013 SED-DA-013(1.0-1.5)
Chemical	**Units**				
C1-Naphthalenes	ug/kg	1.83	1.21	1.40	1.70
C1-Naphthobenzothiophenes	ug/kg	NA	0.380	NA	NA
C20-TAS	ug/kg	NA	--	NA	NA
C21-TAS	ug/kg	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	--	NA	NA
C29-Hopane	ug/kg	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C2-Decalins	ug/kg	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.466	0.445	0.372	0.595
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	0.647	NA	NA
C30-Hopane	ug/kg	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C3-Decalins	ug/kg	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.316	0.501	0.342	--
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	0.477	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C4-Decalins	ug/kg	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA
Carbazole	ug/kg	NA	0.044 J	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	--	NA	NA
Dibenzofuran	ug/kg	NA	0.818	NA	NA
Dibenzothiophene	ug/kg	0.589	0.341	0.469	0.621
Naphthalene, 2,6-dimethyl-	ug/kg	NA	1.14	NA	NA
Naphthobenzothiophene	ug/kg	NA	0.368	NA	NA
Retene	ug/kg	NA	--	NA	NA
TPH					
EOM (Extracted Organic Material)	mg/kg	NA	32 J	NA	NA
i-C15	mg/kg	NA	--	NA	NA
i-C16	mg/kg	NA	--	NA	NA
i-C18	mg/kg	NA	--	NA	NA
n-C10 (n-Decane)	mg/kg	NA	--	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	--	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.013 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.007 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.011 J	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.004 J	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.021	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.005	NA	NA
n-C18 (Octadecane)	mg/kg	NA	0.012	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.006	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.002 J	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	0.004 J	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.004	NA	NA
n-C23 (Tricosane)	mg/kg	NA	0.005 J	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.005 J	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	0.010	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	0.005 J	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	0.012	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.005 J	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	0.035	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	0.006 J	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	0.021	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	0.029	NA	NA
n-C33	mg/kg	NA	0.072	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	0.010 J	NA	NA
n-C35	mg/kg	NA	0.031	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	--	NA	NA
n-C37	mg/kg	NA	--	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	--	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	--	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	--	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	--	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

	Location Depths (ft) Sample Date Sample ID	SED-DA-012 1-1.5 ft 8/4/2013 SED-DA-012(1.0-1.5)	SED-DA-013 0-0.5 ft 8/4/2013 SED-DA-013(0.0-0.5)	SED-DA-013 0.5-1 ft 8/4/2013 SED-DA-013(0.5-1.0)	SED-DA-013 1-1.5 ft 8/4/2013 SED-DA-013(1.0-1.5)
Chemical	**Units**				
Total Alkanes	mg/kg	NA	0.3	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	5.10	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	3.24	NA	NA
Unresolved Complex Mixture	mg/kg	NA	1.86	NA	NA
VOCs					
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--
Acetone	ug/kg	29	17 J	--	15 J
Benzene	ug/kg	--	--	--	--
Chloroform	ug/kg	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--
Toluene	ug/kg	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

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

Notes:

% = percent

-- = Compound was not detected

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

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

ft = feet

mg/kg = milligrams per kilogram

NA = not analyzed

PAH = polycyclic aromatic hydrocarbons

R = The sample results are rejected

TPH = total petroleum hydrocarbon

ug/kg = micrograms per kilogram

VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Chemical	**Units**											
Metals												
Arsenic	mg/kg	2.52	2.57	3.05	7.30	5.43	4.98	28.1	4.07	3.67	10.9	15.5
Barium	mg/kg	58.5	64.2	70.4	83.1	271	108	89.4	89.3	78.0	196	250
Cadmium	mg/kg	0.0926 J	0.125 J	0.232 J	0.348 J	0.332 J	0.408 J	0.338 J	0.213 J	0.234 J	--	--
Chromium	mg/kg	15.5	12.2	12.8	25.1	28.4	20.4	62.1	14.7	12.3	27.7	34.0
Lead	mg/kg	6.87	11.7	13.5	21.0	21.2	21.3	40.8	16.7	15.8	44.6	45.0
Mercury	mg/kg	0.0123 J	0.0123 J	0.0290 J	0.0302 J	0.0495 J	0.0404 J	0.0412 J	0.0363 J	0.0336 J	0.0687 J	0.0885 J
Nickel	mg/kg	6.90	7.23	9.08	11.1	16.9	13.4	13.7	11.0	9.54	25.9	31.0
Selenium	mg/kg	--	--	--	--	--	--	2.93 J	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	0.416 J	--	--	--	--
Vanadium	mg/kg	21.6	20.7	20.0	37.1	42.8	31.2	92.8	24.9	20.8	44.9	51.5
Other												
Black Carbon	%	--	NA	--	NA	NA	--	NA	--	NA	0.38 J	0.39 J
Percent Moisture	%	16.9	15.9	29.5	26.4	32.0	40.1	44.1	23.6	25.0	63.0	71.2
Total Organic Carbon	%	0.17 J	NA	2.15	NA	NA	5.48	NA	1.88	NA	11.34	11.72
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.392 J	0.943	177	70.2	2.72	14.0	3.69	42.2	282	20.8	22.2
2-Methylnaphthalene	ug/kg	0.641 J	1.92	233	96.3	5.57	12.6	6.32	64.0	395	34.1	40.8
Acenaphthene	ug/kg	0.051 J	0.338	16.4	9.53	0.687	72.7	17.3	4.24	31.4	4.28	5.02
Acenaphthylene	ug/kg	0.040 J	0.121	11.8	6.15	0.908	3.79	2.12	4.06	19.5	12.6	10.6
Anthracene	ug/kg	0.030 J	0.220	24.1	17.7	1.38	9.35	2.27	4.05	23.7	14.4	14.1
Benzo(a)Anthracene	ug/kg	0.058 J	0.169 J	26.8	26.4	2.49	6.00	5.85	11.3	18.2	12.2	12.4
Benzo(a)Pyrene	ug/kg	0.043 J	0.211	30.3	28.8	1.59	4.90	4.02	24.1	39.6	13.8	17.9
Benzo(b)Fluoranthene	ug/kg	0.117 J	0.561	55.8	50.4	10.3	24.0	13.4	48.4	59.5	77.1	87.1
Benzo(g,h,i)Perylene	ug/kg	0.080 J	0.328	32.6	28.9	2.04	13.4	4.80	27.8	69.6	66.3	73.2
Benzo(j)+(k)Fluoranthene	ug/kg	0.035 J	0.236	14.6	15.5	2.12	7.71	4.62	13.7	18.9	16.7	13.8
Chrysene/Triphenylene	ug/kg	0.088 J	0.342	117	74.0	9.63	11.4	11.5	65.4	161	35.5	33.0
Dibenz(a,h)Anthracene	ug/kg	0.016 J	0.084	7.98	8.77	0.897	8.38	1.94	6.77	13.5	11.5	14.3
Fluoranthene	ug/kg	0.409	1.70	62.0	52.7	8.45	39.6	15.6	38.3	59.2	43.5 J	44.9 J
Fluorene	ug/kg	1.16	3.43	79.0	44.5	3.86	97.5	23.6	34.0	140	17.3 J	33.4 J
Indeno[1,2,3-cd]pyrene	ug/kg	0.054	0.254	15.7	14.2	2.34	5.60	5.21	1.06	21.2	40.7	45.7
Naphthalene	ug/kg	--	1.47	32.3	14.4	6.50	12.6	6.77	9.19	44.0	19.5	31.5
Phenanthrene	ug/kg	3.39	10.9	331	203	13.0	174	22.8	141	416	35.6 J	64.9 J
Pyrene	ug/kg	0.292	0.815	108	91.7	4.25	31.7	9.85	72.1	111	30.8	29.3
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.090 J	0.343 J	54.2	41.5 J	3.87 J	12.5	6.02	42.6	73.0	44.4	48.8
C1-Chrysenes	ug/kg	--	--	340	217	`	--	--	188	455	95.7	110
C1-Fluoranthenes/Pyrenes	ug/kg	0.265 J	0.499	328	245	5.66	18.3	9.88	187	484	49.8	53.4
C1-Fluorenes	ug/kg	0.493	1.38	317	178	3.24	12.8	4.57	121	--	21.3	22.3
C1-Phenanthrenes/Anthracenes	ug/kg	--	5.60	926	604	11.8	27.4	11.8	464	1207	47.5	49.0
C2-Chrysenes	ug/kg	--	--	396	197	3.53	--	--	220	628	86.3	109
C2-Fluorenes	ug/kg	--	--	739	435	--	17.6	4.53	316	--	65.8	51.9
C2-Naphthalenes	ug/kg	1.58	4.52	1029	435	8.77	52.9	16.8	315	1647	80.8	79.3
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	1406	1083	11.5	30.1	12.1	842	1767	84.4	80.2
C3-Chrysenes	ug/kg	--	--	262	157	--	--	--	193	510	69.4	85.5
C3-Fluorenes	ug/kg	--	--	714	483	--	18.9	8.90	341	--	64.4	55.3
C3-Naphthalenes	ug/kg	2.71	6.93	1519	643	12.9	27.4	13.3	570	2378	71.6	82.6
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	1743	1073	6.10	22.6	6.15	830	1921	89.5	102
C4-Chrysenes	ug/kg	--	--	170	108	--	--	--	88.9	255	42.4	61.6
C4-Naphthalenes	ug/kg	1.51	5.77	1331	788	6.89	86.6	23.9	488	2056	169	66.6
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	686	5.64	18.3	4.83	613	1290	50.8 J	107 J
Perylene	ug/kg	1.96	12.7	30.8	31.2	166	51.8	201	17.0	37.6	171	192
Phenanthrene, 2-methyl-	ug/kg	--	NA	329 J	NA	NA	10.0 J	NA	142 J	NA	15.6 J	17.4 J
1,1-Biphenyl	ug/kg	--	NA	40.2	NA	NA	6.81	NA	12.0	NA	7.94	10.4
18a-Oleanane	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	0.140	NA	284	NA	NA	1.50	NA	163	NA	10.8	7.69
1-Methylfluorene	ug/kg	0.324	NA	213	NA	NA	5.22	NA	95.5	NA	12.3	12.5
1-Methylphenanthrene	ug/kg	--	NA	233	NA	NA	5.49	NA	132	NA	11.5	11.8
2,3,5-Trimethylnaphthalene	ug/kg	0.223	NA	198	NA	NA	3.35	NA	76.4	NA	9.31	9.12
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.100	NA	434	NA	NA	5.42	NA	205	NA	15.8	12.3
2-Methylanthracene	ug/kg	--	NA	27.6	NA	NA	4.48	NA	8.0	NA	7.76	7.23
2-Methylfluoranthene	ug/kg	0.023 J	NA	23.0	NA	NA	3.43	NA	19.9	NA	4.56	4.77
3,6-Dimethylphenanthrene	ug/kg	--	NA	116	NA	NA	2.42	NA	35.8	NA	8.77	8.15
3-Methylphenanthrene (3MP)	ug/kg	--	NA	238	NA	NA	10.1	NA	138	NA	13.0 J	14.2 J
4-Methyldibenzothiophene(4MDT)	ug/kg	0.216	NA	507	NA	NA	3.47	NA	304	NA	19.0	14.6
9/4-Methylphenanthrene (9MP)	ug/kg	--	NA	386	NA	NA	5.91	NA	187	NA	14.2	13.3
Benzo(a)Fluoranthene	ug/kg	--	NA	--	NA	NA	4.03	NA	--	NA	26.6	22.9

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	0.035 J	NA	43.4	NA	NA	3.31	NA	22.3	NA	7.68	8.20
Benzothiophene	ug/kg	--	NA	5.47	NA	NA	1.30	NA	1.35	NA	--	--
C1-Benzo(b)thiophenes	ug/kg	--	NA	56.9	NA	NA	11.9	NA	15.7	NA	--	--
C1-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	7.85	NA	--	80.3 J
C1-Dibenzothiophenes	ug/kg	0.393	0.683	1054	481	2.94	8.94	5.22	578	1394	40.8	30.9
C1-Naphthalenes	ug/kg	0.670 J	1.82	265	105	5.25	17.1	6.49	68.7	438	35.0	40.3
C1-Naphthobenzothiophenes	ug/kg	0.316	NA	511	NA	NA	7.71	NA	323	NA	82.3	97.4
C20-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C21-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C26(20S)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C27(20R)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C28(20R)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C28(20S)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C29-Hopane	ug/kg	--	NA	812	NA	NA	83.6	NA	--	NA	--	--
C2-Benzo(b)thiophenes	ug/kg	--	NA	113	NA	NA	62.3	NA	60.9	NA	--	--
C2-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	22.1	NA	--	--
C2-Dibenzothiophenes	ug/kg	0.604	1.08	1872	888	--	9.88	6.08	1019	2449	76.9	61.9
C2-Fluoranthenes/Pyrenes	ug/kg	0.369 J	1.07	686	401	--	--	--	307	502	97.3	95.3
C2-Naphthobenzothiophenes	ug/kg	0.616	NA	766	NA	NA	12.4	NA	507	NA	169	192
C30-Hopane	ug/kg	--	NA	902	NA	NA	81.6	NA	--	NA	--	--
C3-Benzo(b)thiophenes	ug/kg	--	NA	473	NA	NA	38.5	NA	163	NA	--	--
C3-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	83.1	NA	--	--
C3-Dibenzothiophenes	ug/kg	0.730	1.04	2082	1125	--	14.1	5.87	1394	2588	113	113
C3-Fluoranthenes/Pyrenes	ug/kg	0.277 J	--	458	254	--	--	--	224	672	57.6	81.5
C3-Naphthobenzothiophenes	ug/kg	0.409	NA	576	NA	NA	7.59	NA	401	NA	145	164
C4-Benzo(b)thiophenes	ug/kg	--	NA	604	NA	NA	42.3	NA	244	NA	--	--
C4-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	151	NA	--	--
C4-Dibenzothiophenes	ug/kg	--	0.597	1486	807	--	5.56	2.85	833	1562	119	110
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	435	311	--	--	--	260	560	95.9	61.7
C4-Naphthobenzothiophenes	ug/kg	--	NA	352	NA	NA	16.6	NA	188	NA	61.6	70.3
Carbazole	ug/kg	0.054 J	NA	10.7	--	--	1.70	--	7.47	--	6.96	7.64
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	--	NA	NA	--	NA	4.45	NA	19.9	18.9
Dibenzofuran	ug/kg	0.853	NA	34.4	NA	NA	54.3	NA	14.7	NA	9.51 J	20.6 J
Dibenzothiophene	ug/kg	0.349	0.721	283	127	2.45	14.1	4.55	142	460	18.5	17.3
Naphthalene, 2,6-dimethyl-	ug/kg	0.671	NA	469	NA	NA	19.7	NA	145	NA	31.6	33.8
Naphthobenzothiophene	ug/kg	0.231	NA	190	NA	NA	6.00	NA	119	NA	23.7	22.2
Retene	ug/kg	--	NA	126	NA	NA	7.22	NA	67.0	NA	5.52	4.76
TPH												
EOM (Extracted Organic Material)	mg/kg	28 J	NA	4555	NA	NA	1477	NA	3004	NA	5266	4838
i-C15	mg/kg	--	NA	0.817	NA	NA	0.119	NA	0.426	NA	0.751 J	0.076 J
i-C16	mg/kg	--	NA	1.501	NA	NA	0.139	NA	0.931	NA	0.938 J	0.237 J
i-C18	mg/kg	--	NA	1.182	NA	NA	0.166	NA	0.874	NA	0.051	0.058
n-C10 (n-Decane)	mg/kg	--	NA	0.019 J	NA	NA	--	NA	0.024	NA	0.017 J	0.037
n-C11 (n-Undecane)	mg/kg	--	NA	0.061	NA	NA	0.006 J	NA	0.032	NA	0.044	0.065
n-C12 (n-Dodecane)	mg/kg	--	NA	0.322	NA	NA	0.049	NA	0.121	NA	0.055 J	0.187 J
n-C13 (n-Tridecane)	mg/kg	--	NA	0.654	NA	NA	0.022 J	NA	0.235	NA	0.079	0.149
n-C14 (n-Tetradecane)	mg/kg	--	NA	1.357	NA	NA	0.048	NA	0.687	NA	0.120 J	0.338 J
n-C15 (Pentadecane)	mg/kg	--	NA	1.222	NA	NA	0.217	NA	0.834	NA	2.050 J	0.792 J
n-C16 (n-Hexadecane)	mg/kg	--	NA	1.428	NA	NA	0.122	NA	1.077	NA	0.049 J	0.298 J
n-C17 (Heptadecane)	mg/kg	--	NA	1.618	NA	NA	0.044	NA	1.241	NA	0.837	0.704
n-C18 (Octadecane)	mg/kg	--	NA	1.326	NA	NA	0.259	NA	1.108	NA	1.214	1.338
n-C19 (Nonadecane)	mg/kg	--	NA	1.308	NA	NA	0.132	NA	0.960	NA	1.223	1.404
n-C20 (Eicosane)	mg/kg	--	NA	0.954	NA	NA	0.035	NA	0.781	NA	0.239	0.258
n-C21 (Heneicosane)	mg/kg	--	NA	1.049	NA	NA	0.253	NA	0.911	NA	4.764	5.131
n-C22 (Docosane)	mg/kg	--	NA	0.717	NA	NA	0.113	NA	0.579	NA	0.465	0.443
n-C23 (Tricosane)	mg/kg	--	NA	0.535	NA	NA	0.124	NA	0.591	NA	4.893	4.894
n-C24 (Tetracosane)	mg/kg	--	NA	0.612	NA	NA	0.122	NA	0.566	NA	0.655	0.665
n-C25 (Pentacosane)	mg/kg	--	NA	0.785	NA	NA	0.245	NA	0.631	NA	4.179	4.330
n-C26 (Hexacosane)	mg/kg	--	NA	0.473	NA	NA	0.058	NA	0.384	NA	0.633	0.497
n-C27 (Heptacosane)	mg/kg	--	NA	1.073	NA	NA	0.576	NA	0.865	NA	5.294	5.139
n-C28 (Octacosane)	mg/kg	--	NA	0.496	NA	NA	0.407	NA	0.505	NA	1.170	0.999
n-C29 (Nonacosane)	mg/kg	--	NA	3.437	NA	NA	2.841	NA	1.078	NA	8.569	8.060
n-C30 (n-Triacontane)	mg/kg	--	NA	0.663	NA	NA	0.255	NA	0.618	NA	1.423	1.410
n-C31 (Hentriacontane)	mg/kg	--	NA	3.557	NA	NA	1.870	NA	1.111	NA	12.499	10.358
n-C32 (Dotriacontane)	mg/kg	--	NA	0.234	NA	NA	0.164	NA	0.352	NA	2.803	2.879
n-C33	mg/kg	--	NA	1.791	NA	NA	1.646	NA	0.709	NA	12.325	14.808

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	--	NA	0.346	NA	NA	0.178	NA	0.264	NA	1.776	2.628
n-C35	mg/kg	--	NA	1.459	NA	NA	1.320	NA	0.682	NA	5.203	3.877
n-C36 (Hexatriacontane)	mg/kg	--	NA	0.474	NA	NA	0.084	NA	0.255	NA	1.693 J	0.504 J
n-C37	mg/kg	--	NA	0.712	NA	NA	1.233	NA	0.690	NA	4.761 J	1.679 J
n-C38 (Octatriacontane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	0.421	0.372
n-C39 (Nonatriacontane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	1.234	1.237
n-C40 (Tetracontane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	0.148	0.111
n-C9 (Nonane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	--	NA	1.969	NA	NA	0.121	NA	1.572	NA	0.645	0.649
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	--	NA	1.687	NA	NA	0.017	NA	1.290	NA	0.272	0.376
Total Alkanes	mg/kg	--	NA	35.8	NA	NA	13.0	NA	23.0	NA	83.5	77.0
Total Petroleum Hydrocarbons	mg/kg	--	NA	1841	NA	NA	529	NA	1462	NA	1713	1658
Total Resolveable Hydrocarbons	mg/kg	--	NA	228	NA	NA	343	NA	168	NA	687	667
Unresolved Complex Mixture	mg/kg	--	NA	1613	NA	NA	186	NA	1294	NA	1026	992
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	520	200	--	--	--	9	2500	12 J	10 J
1,3,5-Trimethylbenzene	ug/kg	--	--	270 J	100	--	--	--	6	1100	10 J	7 J
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	34 J	55
2-Phenylbutane	ug/kg	--	--	--	26	--	--	--	2 J	280 J	--	--
Acetone	ug/kg	--	7 J	--	42	22 J	62	30 J	19 J	--	210	260
Benzene	ug/kg	--	--	--	19	--	--	--	0.7 J	--	4 J	6 J
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	110 J	66	--	--	--	1 J	350	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	29	--	--	--	1 J	280 J	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	3 J	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	100 J	30	--	--	--	2 J	430	--	--
n-Propylbenzene	ug/kg	--	--	100 J	48	--	--	--	2 J	480	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	130 J	40	--	--	--	2 J	840	--	--
Toluene	ug/kg	--	--	90 J	12	--	--	--	--	--	5 J	--
Trichloroethene	ug/kg	1 J	1 J	--	2 J	2 J	2 J	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	730	420	--	--	--	8	2600	18 J	23

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	10.0	4.76	NA	NA	NA	7.29 J	19.9	4.95	NA	NA	NA
Barium	mg/kg	177	110	NA	NA	NA	112	278	113	NA	NA	NA
Cadmium	mg/kg	--	--	NA	NA	NA	--	--	--	NA	NA	NA
Chromium	mg/kg	23.9	15.3	NA	NA	NA	16.0	35.0	14.9	NA	NA	NA
Lead	mg/kg	38.0	16.8	NA	NA	NA	19.8	58.8	17.2	NA	NA	NA
Mercury	mg/kg	0.0662 J	0.0347 J	NA	NA	NA	--	0.102 J	0.0546 J	NA	NA	NA
Nickel	mg/kg	23.1	12.5	NA	NA	NA	14.9	32.8	11.8	NA	NA	NA
Selenium	mg/kg	--	--	NA	NA	NA	--	--	--	NA	NA	NA
Silver	mg/kg	--	--	NA	NA	NA	--	--	--	NA	NA	NA
Vanadium	mg/kg	38.5	27.9	NA	NA	NA	23.0	59.8	27.4	NA	NA	NA
Other												
Black Carbon	%	NA	NA	NA	NA	NA	0.37 J	NA	NA	NA	NA	NA
Percent Moisture	%	58.7	32.4	29.3	20.3	18.4	85.4	88.8	23.4	21.6	21.7	17.4
Total Organic Carbon	%	NA	NA	NA	NA	NA	10.58	NA	NA	NA	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	7.01	1.67	0.882	NA	NA	22.9 J	4.43	1.38	NA	NA	NA
2-Methylnaphthalene	ug/kg	15.0	3.60	1.93	NA	NA	41.2	9.51	2.62	NA	NA	NA
Acenaphthene	ug/kg	2.53	0.615	0.251	NA	NA	6.31 J	2.76	0.324	NA	NA	NA
Acenaphthylene	ug/kg	5.47	0.473	0.136	NA	NA	15.6 J	3.43	--	NA	NA	NA
Anthracene	ug/kg	9.05	0.597	0.135	NA	NA	23.2 J	10.1	0.514	NA	NA	NA
Benzo(a)Anthracene	ug/kg	10.9	0.794	0.206	NA	NA	12.9	10.2	1.78	NA	NA	NA
Benzo(a)Pyrene	ug/kg	10.4	--	0.308	NA	NA	24.1 J	11.9	0.930	NA	NA	NA
Benzo(b)Fluoranthene	ug/kg	54.8	--	0.686	NA	NA	98.6 J	40.8	5.22	NA	NA	NA
Benzo(g,h,i)Perylene	ug/kg	--	--	0.592	NA	NA	99.1	--	1.07	NA	NA	NA
Benzo(j)+(k)Fluoranthene	ug/kg	13.8	--	0.186	NA	NA	31.9	11.9	0.87	NA	NA	NA
Chrysene/Triphenylene	ug/kg	38.1	3.41	0.502	NA	NA	54.8	22.9	4.47	NA	NA	NA
Dibenz(a,h)Anthracene	ug/kg	14.1	--	0.167	NA	NA	12.6 J	--	1.40	NA	NA	NA
Fluoranthene	ug/kg	36.9 J	3.15 J	1.20 J	NA	NA	58.4 J	30.9 J	3.67 J	NA	NA	NA
Fluorene	ug/kg	12.1	4.34	3.57	NA	NA	25.8 J	10.5	3.20	NA	NA	NA
Indeno[1,2,3-cd]pyrene	ug/kg	16.1	--	0.423	NA	NA	50.4	14.1	1.23	NA	NA	NA
Naphthalene	ug/kg	13.7	4.35	2.39	NA	NA	20.5 J	11.0	4.21	NA	NA	NA
Phenanthrene	ug/kg	36.1	11.2	7.38	NA	NA	70.6	32.5	8.72	NA	NA	NA
Pyrene	ug/kg	21.8	1.90	0.503	NA	NA	50.1	16.3	1.94	NA	NA	NA
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	36.9	--	0.372	NA	NA	57.4	23.4	2.45	NA	NA	NA
C1-Chrysenes	ug/kg	191	--	--	NA	NA	101	--	--	NA	NA	NA
C1-Fluoranthenes/Pyrenes	ug/kg	52.5	3.14	1.14	NA	NA	86.1	40.8	3.66	NA	NA	NA
C1-Fluorenes	ug/kg	10.5	2.25	1.63	NA	NA	43.1	9.87	2.14	NA	NA	NA
C1-Phenanthrenes/Anthracenes	ug/kg	42.8	7.40	5.08	NA	NA	108	30.4	6.81	NA	NA	NA
C2-Chrysenes	ug/kg	118	--	--	NA	NA	94.8	--	--	NA	NA	NA
C2-Fluorenes	ug/kg	49.0	--	--	NA	NA	127	18.9	--	NA	NA	NA
C2-Naphthalenes	ug/kg	29.1	6.67	3.51	NA	NA	125	37.3	5.57	NA	NA	NA
C2-Phenanthrenes/Anthracenes	ug/kg	82.8	6.88	5.28	NA	NA	210	53.5	--	NA	NA	NA
C3-Chrysenes	ug/kg	93.3	--	--	NA	NA	104	--	--	NA	NA	NA
C3-Fluorenes	ug/kg	49.2	--	--	NA	NA	140	22.5	--	NA	NA	NA
C3-Naphthalenes	ug/kg	22.6	7.23	6.36	NA	NA	178	24.8	6.41	NA	NA	NA
C3-Phenanthrenes/Anthracenes	ug/kg	125	--	2.08	NA	NA	261	59.6	--	NA	NA	NA
C4-Chrysenes	ug/kg	31.1	--	--	NA	NA	85.1	--	--	NA	NA	NA
C4-Naphthalenes	ug/kg	39.5	11.0	--	NA	NA	180	114	--	NA	NA	NA
C4-Phenanthrenes/Anthracenes	ug/kg	111	--	--	NA	NA	167	58.1	--	NA	NA	NA
Perylene	ug/kg	330	321	13.9	NA	NA	200	334	158	NA	NA	NA
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	31.4 J	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	9.79	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	29.7	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	28.0	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	28.6	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	29.2	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	34.4	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	12.4	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	7.61 J	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	19.0 J	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	31.0 J	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	53.1	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	37.3	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	19.2	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	14.2	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	27.9	1.72	0.637	NA	NA	105	16.3	1.35	NA	NA	NA
C1-Naphthalenes	ug/kg	14.1	3.38	1.81	NA	NA	41.0	8.94	2.57	NA	NA	NA
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	93.7	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	78.8	1.59	1.22	NA	NA	213	39.7	1.51	NA	NA	NA
C2-Fluoranthenes/Pyrenes	ug/kg	109	--	--	NA	NA	165	--	--	NA	NA	NA
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	191	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	174	2.02	1.98	NA	NA	253	76.1	1.91	NA	NA	NA
C3-Fluoranthenes/Pyrenes	ug/kg	97.2	--	--	NA	NA	126	--	--	NA	NA	NA
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	185	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	182	2.14	1.21	NA	NA	209	70.4	1.56	NA	NA	NA
C4-Fluoranthenes/Pyrenes	ug/kg	117	--	--	NA	NA	137	--	--	NA	NA	NA
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	87.4	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	11.3	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	30.8	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	15.9 J	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	11.2	1.34	0.374	NA	NA	32.2	7.94	1.03	NA	NA	NA
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	54.5	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	37.2	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	17.5 J	NA	NA	NA	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	NA	NA	5275	NA	NA	NA	NA	NA
i-C15	mg/kg	NA	NA	NA	NA	NA	0.317	NA	NA	NA	NA	NA
i-C16	mg/kg	NA	NA	NA	NA	NA	0.622	NA	NA	NA	NA	NA
i-C18	mg/kg	NA	NA	NA	NA	NA	0.338	NA	NA	NA	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	NA	NA	0.052	NA	NA	NA	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	NA	NA	0.151	NA	NA	NA	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	NA	NA	0.406	NA	NA	NA	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	NA	NA	0.254	NA	NA	NA	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	NA	NA	0.592	NA	NA	NA	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	NA	NA	1.532 J	NA	NA	NA	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	NA	NA	0.543	NA	NA	NA	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	NA	NA	1.396 J	NA	NA	NA	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	NA	NA	2.445 J	NA	NA	NA	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	NA	NA	1.690	NA	NA	NA	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	NA	NA	0.259	NA	NA	NA	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	NA	NA	4.842	NA	NA	NA	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	NA	NA	0.598	NA	NA	NA	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	NA	NA	5.255	NA	NA	NA	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	NA	NA	0.886	NA	NA	NA	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	NA	NA	4.130	NA	NA	NA	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	NA	NA	0.549	NA	NA	NA	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	NA	NA	5.632	NA	NA	NA	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	NA	NA	1.231	NA	NA	NA	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	NA	NA	8.291	NA	NA	NA	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	NA	NA	1.436	NA	NA	NA	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	NA	NA	22.437	NA	NA	NA	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	NA	NA	2.901	NA	NA	NA	NA	NA
n-C33	mg/kg	NA	NA	NA	NA	NA	18.048	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	NA	NA	0.473	NA	NA	NA	NA	NA
n-C35	mg/kg	NA	NA	NA	NA	NA	7.882	NA	NA	NA	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	NA	NA	0.479	NA	NA	NA	NA	NA
n-C37	mg/kg	NA	NA	NA	NA	NA	2.523	NA	NA	NA	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	NA	NA	0.693	NA	NA	NA	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	NA	NA	1.473	NA	NA	NA	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	NA	NA	1.174	NA	NA	NA	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	NA	NA	0.730	NA	NA	NA	NA	NA
Total Alkanes	mg/kg	NA	NA	NA	NA	NA	102	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	2328	NA	NA	NA	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	792	NA	NA	NA	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	NA	NA	1536	NA	NA	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	34 J	--	--	--	--	42 J	87 J	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	220	18 J	--	--	--	290	630	19 J	10 J	9 J	--
Benzene	ug/kg	4 J	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	6 J	2 J	--	--	--	--	--	2 J
Xylene (Total)	ug/kg	7 J	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
	Sample ID	SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	10.1 J	12.9 J	3.50	10.6	3.14	2.74	NA	NA	NA	12.6	3.87
Barium	mg/kg	207	284	99.2	202	107	94.6	NA	NA	NA	191	101
Cadmium	mg/kg	--	--	--	0.254 J	--	--	NA	NA	NA	--	--
Chromium	mg/kg	28.0 J	42.4 J	14.1 J	26.5 J	17.4 J	15.5 J	NA	NA	NA	25.3	14.2
Lead	mg/kg	41.7	80.0	15.9	35.8	15.6	11.5	NA	NA	NA	35.3	14.8
Mercury	mg/kg	0.121 J	0.157 J	0.0412 J	0.0892 J	0.0397 J	0.0194 J	NA	NA	NA	0.0805 J	0.0385 J
Nickel	mg/kg	27.5	38.6	11.5	25.0	10.3	10.0	NA	NA	NA	23.3	9.56
Selenium	mg/kg	--	--	--	--	--	1.35 J	NA	NA	NA	--	--
Silver	mg/kg	--	--	--	--	--	--	NA	NA	NA	--	--
Vanadium	mg/kg	45.2	69.5	25.8	42.4	30.3	26.4	NA	NA	NA	41.9	24.8
Other												
Black Carbon	%	0.36 J	NA	NA	0.41 J	NA	NA	NA	NA	NA	0.23 J	NA
Percent Moisture	%	87.0	88.0	26.2	67.5	27.2	24.0	19.1	18.1	17.2	82.3	32.4
Total Organic Carbon	%	11.6	NA	NA	12.63	NA	NA	NA	NA	NA	6.68	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	18.2	5.46	2.33	23.3	3.25	1.19	NA	NA	NA	10.2	1.32
2-Methylnaphthalene	ug/kg	31.7	12.8	4.92	39.8	6.48	2.42	NA	NA	NA	19.7	2.92
Acenaphthene	ug/kg	6.17	6.17	1.67	4.66	0.702	0.337	NA	NA	NA	4.69	0.969
Acenaphthylene	ug/kg	10.4	3.98	0.961	9.62	0.542	0.052	NA	NA	NA	8.89	0.490
Anthracene	ug/kg	18.8	8.77	1.86	15.6	0.634	--	NA	NA	NA	13.9	0.594
Benzo(a)Anthracene	ug/kg	23.5	8.97	2.14	14.5	1.32	--	NA	NA	NA	10.5	0.671
Benzo(a)Pyrene	ug/kg	26.5	10.9	1.87	16.3	--	--	NA	NA	NA	10.5	0.565
Benzo(b)Fluoranthene	ug/kg	104	43.8	10.2	62.1	5.79	0.227	NA	NA	NA	43.9	2.86
Benzo(g,h,i)Perylene	ug/kg	66.2	33.6	3.08	37.5	1.93	--	NA	NA	NA	45.7	1.22
Benzo(j)+(k)Fluoranthene	ug/kg	36.8	11.8	2.73	12.1	0.831	0.082 J	NA	NA	NA	13.1	0.721
Chrysene/Triphenylene	ug/kg	57.7	56.2	7.02	31.5	4.47	--	NA	NA	NA	27.9	2.14
Dibenz(a,h)Anthracene	ug/kg	8.97	7.3	8.77	9.01	1.19	--	NA	NA	NA	11.2	0.949
Fluoranthene	ug/kg	76.3	33.2	11.6	42.3	4.82	0.763	NA	NA	NA	31.3	4.25
Fluorene	ug/kg	26.0	15.7	9.55	22.6	4.73	3.43	NA	NA	NA	23.5	8.45
Indeno[1,2,3-cd]pyrene	ug/kg	32.9	17.0	3.33	30.4	2.18	--	NA	NA	NA	45.4	2.50
Naphthalene	ug/kg	15.3	10.9	5.80	29.6	9.04	3.26	NA	NA	NA	16.0	3.21
Phenanthrene	ug/kg	90.6	46.1	35.5	54.9	11.3	7.83	NA	NA	NA	49.1	22.5
Pyrene	ug/kg	58.2	22.6	5.83	37.1	3.58	0.387	NA	NA	NA	24.4	2.39
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	59.9	38.2	4.72	29.0	--	--	NA	NA	NA	20.2	1.22
C1-Chrysenes	ug/kg	157	369	--	74.5	--	--	NA	NA	NA	176	--
C1-Fluoranthenes/Pyrenes	ug/kg	86.7	73.5	7.61	34.2	3.21	--	NA	NA	NA	29.7	2.13
C1-Fluorenes	ug/kg	34.2	11.3	5.44	17.4	2.48	1.50	NA	NA	NA	17.7	3.36
C1-Phenanthrenes/Anthracenes	ug/kg	97.8	42.2	12.1	35.7	6.53	3.05	NA	NA	NA	40.7	7.69
C2-Chrysenes	ug/kg	149	219	--	68.7	--	--	NA	NA	NA	55.0	--
C2-Fluorenes	ug/kg	91.9	49.8	15.2	37.6	5.79	--	NA	NA	NA	52.1	--
C2-Naphthalenes	ug/kg	84.0	28.9	9.31	71.7	8.35	3.82	NA	NA	NA	47.9	8.52
C2-Phenanthrenes/Anthracenes	ug/kg	165	93.5	14.8	45.3	7.19	--	NA	NA	NA	73.7	5.81
C3-Chrysenes	ug/kg	132	164	--	54.0	--	--	NA	NA	NA	45.9	--
C3-Fluorenes	ug/kg	124	49.0	11.3	43.5	5.33	--	NA	NA	NA	51.4	--
C3-Naphthalenes	ug/kg	122	29.7	9.54	71.5	9.42	7.19	NA	NA	NA	53.3	9.31
C3-Phenanthrenes/Anthracenes	ug/kg	171	129	7.57	54.6	2.91	--	NA	NA	NA	80.9	2.90
C4-Chrysenes	ug/kg	76.8	79.5	--	35.3	--	--	NA	NA	NA	22.7	--
C4-Naphthalenes	ug/kg	103	36.3	12.9	40.5	8.10	--	NA	NA	NA	54.1	--
C4-Phenanthrenes/Anthracenes	ug/kg	163	122	9.19	46.7	2.68	--	NA	NA	NA	86.9	--
Perylene	ug/kg	305	562 EJ	337	120	297	19.3	NA	NA	NA	266	129
Phenanthrene, 2-methyl-	ug/kg	35.8	NA	NA	11.6 J	NA	NA	NA	NA	NA	13.9	NA
1,1-Biphenyl	ug/kg	7.54	NA	NA	8.68	NA	NA	NA	NA	NA	6.63	NA
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	21.0	NA	NA	6.44	NA	NA	NA	NA	NA	8.39	NA
1-Methylfluorene	ug/kg	19.2	NA	NA	9.49	NA	NA	NA	NA	NA	9.46	NA
1-Methylphenanthrene	ug/kg	27.4	NA	NA	8.39	NA	NA	NA	NA	NA	9.38	NA
2,3,5-Trimethylnaphthalene	ug/kg	16.6	NA	NA	8.48	NA	NA	NA	NA	NA	5.92	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	33.2	NA	NA	10.5	NA	NA	NA	NA	NA	11.6	NA
2-Methylanthracene	ug/kg	10.8	NA	NA	5.51	NA	NA	NA	NA	NA	7.78	NA
2-Methylfluoranthene	ug/kg	7.20	NA	NA	4.84	NA	NA	NA	NA	NA	3.50	NA
3,6-Dimethylphenanthrene	ug/kg	14.5	NA	NA	5.74	NA	NA	NA	NA	NA	5.13	NA
3-Methylphenanthrene (3MP)	ug/kg	26.0	NA	NA	11.4	NA	NA	NA	NA	NA	11.4	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	42.2	NA	NA	13.5	NA	NA	NA	NA	NA	14.5	NA
9/4-Methylphenanthrene (9MP)	ug/kg	36.3	NA	NA	9.84	NA	NA	NA	NA	NA	12.6	NA
Benzo(a)Fluoranthene	ug/kg	13.0	NA	NA	11.1	NA	NA	NA	NA	NA	15.8	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
	Sample ID	SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	14.3	NA	NA	8.50	NA	NA	NA	NA	NA	6.61	NA
Benzothiophene	ug/kg	1.78	NA	NA	1.72	NA	NA	NA	NA	NA	0.91	NA
C1-Benzo(b)thiophenes	ug/kg	12.0	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C1-Decalins	ug/kg	28.4	NA	NA	5.64	NA	NA	NA	NA	NA	--	NA
C1-Dibenzothiophenes	ug/kg	84.7	26.3	2.86	25.5	2.21	--	NA	NA	NA	24.9	--
C1-Naphthalenes	ug/kg	29.8	11.2	4.45	41.0	6.34	2.35	NA	NA	NA	19.4	2.83
C1-Naphthobenzothiophenes	ug/kg	144	NA	NA	45.1	NA	NA	NA	NA	NA	57.7	NA
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C29-Hopane	ug/kg	--	NA	NA	103	NA	NA	NA	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	27.8	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Decalins	ug/kg	53.2	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	172	72.2	5.44	36.4	2.38	--	NA	NA	NA	--	--
C2-Fluoranthenes/Pyrenes	ug/kg	174	160	--	54.9	--	--	NA	NA	NA	--	--
C2-Naphthobenzothiophenes	ug/kg	236	NA	NA	77.7	NA	NA	NA	NA	NA	99.6	NA
C30-Hopane	ug/kg	--	NA	NA	157	NA	NA	NA	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	47.3	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Decalins	ug/kg	84.1	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	236	145	7.50	55.8	2.43	--	NA	NA	NA	--	--
C3-Fluoranthenes/Pyrenes	ug/kg	139	171	--	34.8	--	--	NA	NA	NA	--	--
C3-Naphthobenzothiophenes	ug/kg	250	NA	NA	76.7	NA	NA	NA	NA	NA	87.0	NA
C4-Benzo(b)thiophenes	ug/kg	45.3	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Decalins	ug/kg	106	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	206	137	5.05	40.1	1.77	--	NA	NA	NA	--	2.41
C4-Fluoranthenes/Pyrenes	ug/kg	175	189	--	48.4	--	--	NA	NA	NA	--	--
C4-Naphthobenzothiophenes	ug/kg	114	NA	NA	32.8	NA	NA	NA	NA	NA	49.6	NA
Carbazole	ug/kg	9.94	NA	NA	6.84	NA	NA	NA	NA	NA	4.86	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	61.4	NA	NA	52.4	NA	NA	NA	NA	NA	--	NA
Dibenzofuran	ug/kg	15.4	NA	NA	13.0	NA	NA	NA	NA	NA	16.2	NA
Dibenzothiophene	ug/kg	37.2	11.8	2.75	14.0	1.57	0.276	NA	NA	NA	11.2	1.12
Naphthalene, 2,6-dimethyl-	ug/kg	42.3	NA	NA	33.5	NA	NA	NA	NA	NA	13.8	NA
Naphthobenzothiophene	ug/kg	48.3	NA	NA	17.9	NA	NA	NA	NA	NA	19.7	NA
Retene	ug/kg	23.0	NA	NA	7.20	NA	NA	NA	NA	NA	18.2	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	6062	NA	NA	4225	NA	NA	NA	NA	NA	2950	NA
i-C15	mg/kg	0.186	NA	NA	0.067	NA	NA	NA	NA	NA	0.033	NA
i-C16	mg/kg	0.644	NA	NA	0.223	NA	NA	NA	NA	NA	0.156	NA
i-C18	mg/kg	0.255	NA	NA	0.038	NA	NA	NA	NA	NA	0.089	NA
n-C10 (n-Decane)	mg/kg	0.032	NA	NA	0.033	NA	NA	NA	NA	NA	--	NA
n-C11 (n-Undecane)	mg/kg	0.108	NA	NA	0.114	NA	NA	NA	NA	NA	0.027	NA
n-C12 (n-Dodecane)	mg/kg	0.114	NA	NA	0.200	NA	NA	NA	NA	NA	0.095	NA
n-C13 (n-Tridecane)	mg/kg	0.228	NA	NA	0.098	NA	NA	NA	NA	NA	0.049	NA
n-C14 (n-Tetradecane)	mg/kg	0.248	NA	NA	0.274	NA	NA	NA	NA	NA	0.171	NA
n-C15 (Pentadecane)	mg/kg	1.27	NA	NA	0.203	NA	NA	NA	NA	NA	0.480	NA
n-C16 (n-Hexadecane)	mg/kg	0.353	NA	NA	0.199	NA	NA	NA	NA	NA	0.224	NA
n-C17 (Heptadecane)	mg/kg	1.90	NA	NA	1.349	NA	NA	NA	NA	NA	0.467	NA
n-C18 (Octadecane)	mg/kg	2.48	NA	NA	1.650	NA	NA	NA	NA	NA	1.088	NA
n-C19 (Nonadecane)	mg/kg	2.13	NA	NA	1.531	NA	NA	NA	NA	NA	0.693	NA
n-C20 (Eicosane)	mg/kg	0.325	NA	NA	0.143	NA	NA	NA	NA	NA	0.177	NA
n-C21 (Heneicosane)	mg/kg	5.58	NA	NA	5.639	NA	NA	NA	NA	NA	3.344	NA
n-C22 (Docosane)	mg/kg	0.760	NA	NA	0.450	NA	NA	NA	NA	NA	0.301	NA
n-C23 (Tricosane)	mg/kg	12.7	NA	NA	4.571	NA	NA	NA	NA	NA	3.579	NA
n-C24 (Tetracosane)	mg/kg	1.46	NA	NA	0.823	NA	NA	NA	NA	NA	0.493	NA
n-C25 (Pentacosane)	mg/kg	8.51	NA	NA	4.257	NA	NA	NA	NA	NA	3.148	NA
n-C26 (Hexacosane)	mg/kg	0.861	NA	NA	1.765	NA	NA	NA	NA	NA	0.460	NA
n-C27 (Heptacosane)	mg/kg	8.66	NA	NA	5.974	NA	NA	NA	NA	NA	4.474	NA
n-C28 (Octacosane)	mg/kg	1.07	NA	NA	1.328	NA	NA	NA	NA	NA	1.119	NA
n-C29 (Nonacosane)	mg/kg	11.5	NA	NA	8.618	NA	NA	NA	NA	NA	5.050	NA
n-C30 (n-Triacontane)	mg/kg	0.572	NA	NA	1.336	NA	NA	NA	NA	NA	0.895	NA
n-C31 (Hentriacontane)	mg/kg	9.29	NA	NA	15.071	NA	NA	NA	NA	NA	6.956	NA
n-C32 (Dotriacontane)	mg/kg	0.928	NA	NA	0.876	NA	NA	NA	NA	NA	2.271	NA
n-C33	mg/kg	7.49	NA	NA	17.344	NA	NA	NA	NA	NA	14.110	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
	Sample ID	SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	0.712	NA	NA	0.717	NA	NA	NA	NA	NA	1.235	NA
n-C35	mg/kg	3.75	NA	NA	8.906	NA	NA	NA	NA	NA	20.656	NA
n-C36 (Hexatriacontane)	mg/kg	0.734	NA	NA	0.450	NA	NA	NA	NA	NA	0.780	NA
n-C37	mg/kg	3.73	NA	NA	2.818	NA	NA	NA	NA	NA	1.823	NA
n-C38 (Octatriacontane)	mg/kg	0.707	NA	NA	0.381	NA	NA	NA	NA	NA	0.289	NA
n-C39 (Nonatriacontane)	mg/kg	2.30	NA	NA	1.138	NA	NA	NA	NA	NA	0.730	NA
n-C40 (Tetracontane)	mg/kg	--	NA	NA	0.145	NA	NA	NA	NA	NA	0.191	NA
n-C9 (Nonane)	mg/kg	0.020	NA	NA	--	NA	NA	NA	NA	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	1.49	NA	NA	0.765	NA	NA	NA	NA	NA	0.357	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	1.02	NA	NA	0.326	NA	NA	NA	NA	NA	0.244	NA
Total Alkanes	mg/kg	94.1	NA	NA	89.8	NA	NA	NA	NA	NA	76.3	NA
Total Petroleum Hydrocarbons	mg/kg	2225	NA	NA	1548	NA	NA	NA	NA	NA	959	NA
Total Resolveable Hydrocarbons	mg/kg	1091	NA	NA	857	NA	NA	NA	NA	NA	536	NA
Unresolved Complex Mixture	mg/kg	1133	NA	NA	691	NA	NA	NA	NA	NA	423	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	8 J	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	8 J	--
2-Butanone (MEK)	ug/kg	54 J	--	--	27 J	--	--	--	--	--	42 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	370	290	17 J	180	17 J	--	--	--	--	250	14 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	23 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	3.62	NA	NA	14.0	17.0	3.89	NA	NA	NA	3.81 J	5.24 J
Barium	mg/kg	74.4	NA	NA	177	263	96.5	NA	NA	NA	104	263
Cadmium	mg/kg	--	NA	NA	--	--	--	NA	NA	NA	--	--
Chromium	mg/kg	11.6	NA	NA	23.6	35.3	14.0	NA	NA	NA	13.3 J	34.8 J
Lead	mg/kg	11.8	NA	NA	32.8	51.2	13.7	NA	NA	NA	17.8	37.4
Mercury	mg/kg	0.0256 J	NA	NA	0.0839 J	0.123 J	0.0351 J	NA	NA	NA	0.0528 J	--
Nickel	mg/kg	7.83	NA	NA	26.4	34.2	9.86	NA	NA	NA	11.9	29.2
Selenium	mg/kg	--	NA	NA	--	--	--	NA	NA	NA	--	--
Silver	mg/kg	--	NA	NA	--	--	--	NA	NA	NA	--	--
Vanadium	mg/kg	20.5	NA	NA	36.3	55.6	22.9	NA	NA	NA	22.5	59.3
Other												
Black Carbon	%	NA	NA	NA	0.42 J	NA	NA	NA	NA	NA	--	NA
Percent Moisture	%	24.5	24.9	18.7	85.2	81.4	24.4	26.8	24.0	17.8	56.1	71.3
Total Organic Carbon	%	NA	NA	NA	13.3	NA	NA	NA	NA	NA	3.23	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.236 J	0.139 J	0.173 J	18.6	6.30	0.959	0.349 J	--	0.292 J	7.96	1.10
2-Methylnaphthalene	ug/kg	0.544 J	0.351 J	0.296 J	37.6	13.6	1.97	0.664 J	0.345 J	0.529 J	13.6	2.40
Acenaphthene	ug/kg	0.50	--	--	8.68	3.65	0.569	--	--	--	1.73	0.62
Acenaphthylene	ug/kg	0.04	--	--	20.0	3.42	0.350	--	--	--	4.75	0.40
Anthracene	ug/kg	--	--	--	34.8	5.10	0.325	--	--	--	8.09	1.03
Benzo(a)Anthracene	ug/kg	0.154 J	--	--	27.8	5.49	0.536	--	--	--	10.2	1.08
Benzo(a)Pyrene	ug/kg	0.167	--	--	32.3	5.00	0.512	--	--	--	9.25	1.02
Benzo(b)Fluoranthene	ug/kg	0.330	--	--	124	27.3	2.74	--	--	--	41.4	3.67
Benzo(g,h,i)Perylene	ug/kg	0.276	--	--	152	23.2	0.837	--	0.076 J	--	28.6	1.74
Benzo(j)+(k)Fluoranthene	ug/kg	0.126	--	--	39.8	6.06	0.765	--	--	--	11.0	0.818
Chrysene/Triphenylene	ug/kg	0.274	--	--	72.4	15.4	2.26	--	--	--	21.2	3.06
Dibenz(a,h)Anthracene	ug/kg	0.300	--	--	19.0	3.62	0.428	--	0.053 J	--	10.5	0.619
Fluoranthene	ug/kg	1.66	1.00	0.971	78.8	21.0	3.18	2.56	1.83	1.98	33.9	6.48
Fluorene	ug/kg	2.81	1.53	1.84	47.9	22.1	5.54	4.33	3.18	4.33	8.50	3.36
Indeno[1,2,3-cd]pyrene	ug/kg	0.345	--	--	106	15.0	1.07	--	0.063	--	23.1	1.54
Naphthalene	ug/kg	1.03	--	--	38.0	12.8	2.83	1.13	--	0.90	5.68	1.87
Phenanthrene	ug/kg	9.46	5.42	6.72	116	55.3	15.3	13.2	12.4	14.3	36.6	16.2
Pyrene	ug/kg	0.719	0.384	0.303	71.4	12.9	1.67	0.668	--	0.366	26.1	3.41
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.219	--	--	60.8	13.3	1.04	--	--	--	21.5	2.20
C1-Chrysenes	ug/kg	--	--	--	128	45.5	--	--	--	--	78.8	--
C1-Fluoranthenes/Pyrenes	ug/kg	0.361 J	0.312 J	--	100	18.4	1.61	--	--	--	40.8	4.31
C1-Fluorenes	ug/kg	1.41	0.952	0.974	40.9	11.4	2.56	2.18	1.52	2.23	17.9	2.94
C1-Phenanthrenes/Anthracenes	ug/kg	4.96	--	--	841	26.3	6.60	5.50	6.12	5.86	56.0	9.93
C2-Chrysenes	ug/kg	--	--	--	116	25.4	--	--	--	--	43.3	--
C2-Fluorenes	ug/kg	--	--	--	164	28.6	--	--	--	--	51.3	9.70
C2-Naphthalenes	ug/kg	1.61	1.69	1.06	104	33.0	4.94	2.47	1.08	1.99	43.0	5.57
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	277	33.0	--	--	--	--	92.9	14.7
C3-Chrysenes	ug/kg	--	--	--	99.3	22.8	--	--	--	--	33.3	--
C3-Fluorenes	ug/kg	--	--	--	176	28.9	--	--	--	--	60.1	12.2
C3-Naphthalenes	ug/kg	3.19	--	--	144	43.5	6.21	--	--	--	61.1	7.83
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	305	35.7	--	--	--	--	113	9.83
C4-Chrysenes	ug/kg	--	--	--	--	15.6	--	--	--	--	33.0	--
C4-Naphthalenes	ug/kg	--	--	--	177	28.2	6.27	--	--	--	60.3	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	247	28.3	--	--	--	--	92.4	9.76
Perylene	ug/kg	25.4	14.7	0.263 J	230	640 EJ	116	14.7	0.690 J	0.17 J	365	49.1
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	223	NA	NA	NA	NA	NA	21.1	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	11.9	NA	NA	NA	NA	NA	4.86	NA
18a-Oleanane	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	41.0	NA	NA	NA	NA	NA	13.8	NA
1-Methylfluorene	ug/kg	NA	NA	NA	29.6	NA	NA	NA	NA	NA	11.0	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	216	NA	NA	NA	NA	NA	13.5	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	17.0	NA	NA	NA	NA	NA	6.19	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	44.5	NA	NA	NA	NA	NA	20.9	NA
2-Methylanthracene	ug/kg	NA	NA	NA	217	NA	NA	NA	NA	NA	7.07	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	9.71	NA	NA	NA	NA	NA	4.64	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	10.6	NA	NA	NA	NA	NA	7.10	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	242	NA	NA	NA	NA	NA	15.3	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	64.2	NA	NA	NA	NA	NA	27.2	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	240	NA	NA	NA	NA	NA	21.2	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	6.65	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	NA	NA	NA	19.4	NA	NA	NA	NA	NA	8.02	NA
Benzothiophene	ug/kg	NA	NA	NA	1.85	NA	NA	NA	NA	NA	0.864	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C1-Decalins	ug/kg	NA	NA	NA	22.4	NA	NA	NA	NA	NA	--	NA
C1-Dibenzothiophenes	ug/kg	--	--	--	108	11.9	--	--	--	--	54.5	4.47
C1-Naphthalenes	ug/kg	0.521 J	0.327 J	0.311 J	36.5	13.3	1.95	0.674 J	0.366 J	0.55 J	12.9	2.10
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	144	NA	NA	NA	NA	NA	47.1	NA
C20-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C21-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C29-Hopane	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Decalins	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	--	--	--	272	27.5	--	--	--	--	111	8.20
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	--	146	28.3	--	--	--	--	62.3	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	223	NA	NA	NA	NA	NA	87.4	NA
C30-Hopane	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Decalins	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	--	--	--	282	39.6	--	--	--	--	121	11.7
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	107	21.3	--	--	--	--	39.6	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	213	NA	NA	NA	NA	NA	72.9	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Decalins	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	--	--	--	261	39.6	0.531	--	--	--	116	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	108	25.2	--	--	--	--	64.1	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	108	NA	NA	NA	NA	NA	33.9	NA
Carbazole	ug/kg	NA	NA	NA	13.0	NA	NA	NA	NA	NA	6.88	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	64.9	NA	NA	NA	NA	NA	15.1	NA
Dibenzofuran	ug/kg	NA	NA	NA	29.3	NA	NA	NA	NA	NA	5.29	NA
Dibenzothiophene	ug/kg	--	--	--	34.7	6.22	--	--	--	--	21.2	1.97
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	30.1	NA	NA	NA	NA	NA	19.1	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	55.6	NA	NA	NA	NA	NA	23.1	NA
Retene	ug/kg	NA	NA	NA	19.3	NA	NA	NA	NA	NA	11.1	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	6329	NA	NA	NA	NA	NA	2244	NA
i-C15	mg/kg	NA	NA	NA	0.127	NA	NA	NA	NA	NA	0.051	NA
i-C16	mg/kg	NA	NA	NA	0.495	NA	NA	NA	NA	NA	0.243	NA
i-C18	mg/kg	NA	NA	NA	0.130	NA	NA	NA	NA	NA	0.087	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	0.010 J	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	0.055	NA	NA	NA	NA	NA	0.020	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	0.168	NA	NA	NA	NA	NA	0.024	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	0.101 J	NA	NA	NA	NA	NA	0.039 J	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	0.293	NA	NA	NA	NA	NA	0.074	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	0.949	NA	NA	NA	NA	NA	1.03	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	0.390	NA	NA	NA	NA	NA	0.115	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	1.258	NA	NA	NA	NA	NA	0.510	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	2.142	NA	NA	NA	NA	NA	1.02	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	1.768	NA	NA	NA	NA	NA	0.671	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	0.447	NA	NA	NA	NA	NA	0.187	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	4.919	NA	NA	NA	NA	NA	2.57	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	0.671	NA	NA	NA	NA	NA	0.252	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	15.096	NA	NA	NA	NA	NA	2.45	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	1.232	NA	NA	NA	NA	NA	0.374	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	10.154	NA	NA	NA	NA	NA	1.89	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	1.014	NA	NA	NA	NA	NA	0.253	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	12.193	NA	NA	NA	NA	NA	2.54	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	2.160	NA	NA	NA	NA	NA	0.638	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	12.368	NA	NA	NA	NA	NA	4.57	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	0.454	NA	NA	NA	NA	NA	0.313	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	16.471	NA	NA	NA	NA	NA	4.22	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	1.140	NA	NA	NA	NA	NA	0.511	NA
n-C33	mg/kg	NA	NA	NA	17.618	NA	NA	NA	NA	NA	3.81	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	1.903	NA	NA	NA	NA	NA	0.587	NA
n-C35	mg/kg	NA	NA	NA	5.238	NA	NA	NA	NA	NA	1.68	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	0.432	NA	NA	NA	NA	NA	0.288	NA
n-C37	mg/kg	NA	NA	NA	2.071	NA	NA	NA	NA	NA	1.15	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	0.795	NA	NA	NA	NA	NA	0.200	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	2.333	NA	NA	NA	NA	NA	0.369	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	0.131	NA	NA	NA	NA	NA	--	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	0.991	NA	NA	NA	NA	NA	0.421	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	0.632	NA	NA	NA	NA	NA	0.307	NA
Total Alkanes	mg/kg	NA	NA	NA	118	NA	NA	NA	NA	NA	33.5	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	2275	NA	NA	NA	NA	NA	770	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	1140	NA	NA	NA	NA	NA	404	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	1135	NA	NA	NA	NA	NA	366	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	9 J
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	10 J
2-Butanone (MEK)	ug/kg	--	--	--	39 J	--	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	--	--	--	270	150	13 J	9 J	--	--	41 J	120
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	5 J	4 J	6 J	19 J	15 J	3 J	3 J	2 J	2 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	7.66 J	NA	NA	16.3	17.6 J	3.82	2.24 J	17.1 J	20.2	7.25	NA
Barium	mg/kg	241	NA	NA	258	241	106	89.0	267	539	198	NA
Cadmium	mg/kg	--	NA	NA	1.99 J	--	--	--	--	0.790 J	0.211 J	NA
Chromium	mg/kg	33.0 J	NA	NA	36.5 J	33.5 J	16.1 J	12.5 J	38.9 J	84.4 J	33.7 J	NA
Lead	mg/kg	41.1	NA	NA	68.5	55.7	19.0	15.6	71.5	103	33.9	NA
Mercury	mg/kg	0.130 J	NA	NA	0.152 J	0.196 J	0.0395 J	0.0531 J	0.184 J	0.146 J	0.788	NA
Nickel	mg/kg	31.1	NA	NA	36.0	33.6	11.4	8.17	34.8	74.0	28.5	NA
Selenium	mg/kg	--	NA	NA	--	--	--	--	--	--	--	NA
Silver	mg/kg	--	NA	NA	--	--	--	--	--	--	--	NA
Vanadium	mg/kg	52.7	NA	NA	58.7	54.7	27.1	21.3	64.0	135	52.4	NA
Other												
Black Carbon	%	NA	NA	NA	0.32 J	0.36 J	NA	NA	0.3 J	NA	NA	NA
Percent Moisture	%	80.9	77.8	83.4	84.9	89.3	47.5	36.5	89.2	87.1	63.3	42.0
Total Organic Carbon	%	NA	NA	NA	8.11	13.4	NA	NA	12.5	NA	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	15.2	NA	NA	5.33	6.64	3.05	1.14	6.62	4.75	4.87	NA
2-Methylnaphthalene	ug/kg	27.2	NA	NA	13.1	16.6	6.33	2.40	18.4	12.1	12.4	NA
Acenaphthene	ug/kg	3.06	NA	NA	1.54	8.73	1.10	0.465	8.16	4.01	3.78	NA
Acenaphthylene	ug/kg	5.52	NA	NA	5.21	13.6	2.15	0.373	11.8	2.35	2.14	NA
Anthracene	ug/kg	11.4	NA	NA	12.4	32.9	5.13	0.634	26.1	5.67	5.29	NA
Benzo(a)Anthracene	ug/kg	11.0	NA	NA	12.2	20.6	4.22	1.04	24.9	6.98	7.60	NA
Benzo(a)Pyrene	ug/kg	15.5	NA	NA	16.1	28.0	4.76	--	30.9	7.63	6.35	NA
Benzo(b)Fluoranthene	ug/kg	49.4	NA	NA	57.7	97	17.2	4.23	114	32.6	31.0	NA
Benzo(g,h,i)Perylene	ug/kg	35.3	NA	NA	59.9	69.3 J	10.7	--	145 J	18.0	16.8	NA
Benzo(j)+(k)Fluoranthene	ug/kg	20.3	NA	NA	18.1	24.3	4.91	0.803	33.2	6.78	8.34	NA
Chrysene/Triphenylene	ug/kg	40.7	NA	NA	32.1	42.3	8.65	2.89	42.2	24.6	25.0	NA
Dibenz(a,h)Anthracene	ug/kg	5.71	NA	NA	8.41	8.17 J	2.67	--	14.5 J	4.81	4.34	NA
Fluoranthene	ug/kg	54.4	NA	NA	40.7	90.7	16.7	4.64	79.1	23.6	24.7	NA
Fluorene	ug/kg	22.1	NA	NA	15.9	28.0	10.9	3.32	22.3	12.0	11.2	NA
Indeno[1,2,3-cd]pyrene	ug/kg	22.9	NA	NA	39.5	30.3 J	10.9	--	60.3 J	11.3	10.9	NA
Naphthalene	ug/kg	11.7	NA	NA	10.5	15.1	6.21	2.99	18.5	10.0	8.18	NA
Phenanthrene	ug/kg	85.6	NA	NA	47.7	109	44.3	12.9	83.2	39.9	36.2	NA
Pyrene	ug/kg	39.1	NA	NA	35.6	49.8	12.4	3.19	72.2	20.7	21.2	NA
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	32.0	NA	NA	37.9	44.8	7.94	--	66.3	23.5	22.7	NA
C1-Chrysenes	ug/kg	87.3	NA	NA	119	80.6	31.4	--	130	99.2	88.7	NA
C1-Fluoranthenes/Pyrenes	ug/kg	69.9	NA	NA	52.8	55.5	10.8	3.03	58.5	39.0	43.6	NA
C1-Fluorenes	ug/kg	35.9	NA	NA	11.0	16.2	5.22	1.98	15.1	8.00	8.90	NA
C1-Phenanthrenes/Anthracenes	ug/kg	101	NA	NA	46.6	61.8	16.0	6.59	56.3	31.4	34.0	NA
C2-Chrysenes	ug/kg	68.7	NA	NA	104	52.3 J	16.8	--	110 J	99.1	104	NA
C2-Fluorenes	ug/kg	105	NA	NA	63.9	54.7	22.3	5.86	69.0	37.1	39.5	NA
C2-Naphthalenes	ug/kg	74.9	NA	NA	25.5	38.9	11.7	7.15	36.2	27.4	32.0	NA
C2-Phenanthrenes/Anthracenes	ug/kg	190	NA	NA	93.8	79.7	18.4	--	81.3	59.0	70.6	NA
C3-Chrysenes	ug/kg	60.2	NA	NA	90.9	34.7 J	17.1	--	92.5 J	80.4	87.0	NA
C3-Fluorenes	ug/kg	124	NA	NA	53.9	70.6	17.8	6.60	71.8	30.7	34.4	NA
C3-Naphthalenes	ug/kg	111	NA	NA	31.3	46.0	11.1	7.47	37.0	35.6	49.3	NA
C3-Phenanthrenes/Anthracenes	ug/kg	184	NA	NA	90.4	85.8	15.4	--	75.2	85.9	96.1	NA
C4-Chrysenes	ug/kg	53.4	NA	NA	72.8	--	13.4	--	109 J	49.8	46.7	NA
C4-Naphthalenes	ug/kg	116	NA	NA	17.6	37.3	10.9	--	26.0	28.3	30.8	NA
C4-Phenanthrenes/Anthracenes	ug/kg	175	NA	NA	96.1	61.4	14.4	--	80.7	71.9	87.6	NA
Perylene	ug/kg	212	NA	NA	297	567	396	625	790	375	314	NA
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	13.9	16.5 J	NA	NA	16.7	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	4.17	7.33	NA	NA	7.44	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	4.00	3.31	NA	NA	4.00	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	5.13	10.3	NA	NA	8.24	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	7.96	10.5	NA	NA	11.1	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	5.00	8.90	NA	NA	5.24 J	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	11.6	10.2	NA	NA	11.5	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	19.8	13.2	NA	NA	20.1	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	6.57	6.26	NA	NA	8.72	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	7.01	5.94	NA	NA	5.84	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	14.5	16.9	NA	NA	16.4	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	11.9	12.1	NA	NA	13.3	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	8.76	14.8	NA	NA	14.1	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	27.7	27.9	NA	NA	--	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	NA	NA	NA	10.6	12.1	NA	NA	16.4	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	--	--	NA	NA	2.11 J	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	98.1	NA	NA	24.2	20.2	4.63	1.86	25.2	20.1	22.2	NA
C1-Naphthalenes	ug/kg	25.3	NA	NA	11.1	14.7	5.62	2.12	15.0	10.1	10.4	NA
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	107	60.9	NA	NA	73.4	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	200	NA	NA	62.0	41.7	8.97	2.09	49.5	48.4	52.7	NA
C2-Fluoranthenes/Pyrenes	ug/kg	134	NA	NA	140	122	22.8	--	107	93.7	90.5	NA
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	213	92.1	NA	NA	152	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	243	NA	NA	129	49.9	14.1	2.20	63.1	83.5	95.1	NA
C3-Fluoranthenes/Pyrenes	ug/kg	93.7	NA	NA	79.6	59.8	11.7	--	56.3	82.7	75.7	NA
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	209	91.6	NA	NA	147	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	202	NA	NA	112	62.2	15.5	1.97	71.6	96.1	114	NA
C4-Fluoranthenes/Pyrenes	ug/kg	95.8	NA	NA	106	54.2 J	24.5	--	105 J	92.4	82.6	NA
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	110	35.4 J	NA	NA	72.2 J	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	4.32	7.18	NA	NA	11.4	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	57.2	87.5	NA	NA	82.3	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	7.35	15.8	NA	NA	14.2	NA	NA	NA
Dibenzothiophene	ug/kg	39.5	NA	NA	12.3	15.6	4.40	1.51	17.9	9.39	9.98	NA
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	12.8	21.0	NA	NA	19.3	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	26.2	21.9	NA	NA	26.5	NA	NA	NA
Retene	ug/kg	NA	NA	NA	8.65	13.1	NA	NA	15.3	NA	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	4821	6627	NA	NA	6573	NA	NA	NA
i-C15	mg/kg	NA	NA	NA	0.043 J	0.041	NA	NA	0.053	NA	NA	NA
i-C16	mg/kg	NA	NA	NA	0.209	0.138	NA	NA	0.179	NA	NA	NA
i-C18	mg/kg	NA	NA	NA	0.038	0.087	NA	NA	0.055	NA	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	0.009 J	0.015 J	NA	NA	0.104 J	NA	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	0.024 J	0.030	NA	NA	0.030 J	NA	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	0.017 J	0.066	NA	NA	0.027 J	NA	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	0.037 J	0.060	NA	NA	0.051 J	NA	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	0.060	0.128 J	NA	NA	0.055 J	NA	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	0.523	0.860	NA	NA	0.902	NA	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	0.076	0.206 J	NA	NA	0.097 J	NA	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	0.219	0.442	NA	NA	0.384	NA	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	1.37	1.985	NA	NA	1.65	NA	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	1.45	1.811	NA	NA	1.80	NA	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	0.241	0.466	NA	NA	0.410	NA	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	5.65	5.189	NA	NA	6.17	NA	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	0.430	0.643	NA	NA	0.594	NA	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	8.69	6.179	NA	NA	9.16	NA	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	0.958	1.226	NA	NA	1.19	NA	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	5.79	6.543	NA	NA	6.57	NA	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	0.608	0.631	NA	NA	0.624	NA	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	6.90	7.425	NA	NA	7.37	NA	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	0.596	0.725	NA	NA	0.719	NA	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	7.48	8.765	NA	NA	9.52	NA	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	0.252	0.417	NA	NA	0.446	NA	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	4.70	11.120	NA	NA	9.18	NA	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	0.591	1.141 J	NA	NA	0.316 J	NA	NA	NA
n-C33	mg/kg	NA	NA	NA	3.62	8.700	NA	NA	7.99	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	0.868	1.184 J	NA	NA	0.480 J	NA	NA	NA
n-C35	mg/kg	NA	NA	NA	2.89	9.146 J	NA	NA	4.07 J	NA	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	0.293	0.806 J	NA	NA	0.379 J	NA	NA	NA
n-C37	mg/kg	NA	NA	NA	2.16	2.642	NA	NA	3.00	NA	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	0.323	0.655	NA	NA	0.547	NA	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	1.24	1.641	NA	NA	1.49	NA	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	0.492	0.849	NA	NA	0.804	NA	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	0.226	0.570	NA	NA	0.492	NA	NA	NA
Total Alkanes	mg/kg	NA	NA	NA	59.1	82.5	NA	NA	76.9	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	1578	1774	NA	NA	2173	NA	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	834	940	NA	NA	1000	NA	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	744	834	NA	NA	1173	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	18 J	7 J	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	20 J	7 J	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	26 J	60 J	--	--	--	--	160	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	190	150	340	230	320	25 J	19 J	920	230	52 J	36 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	14 J	--	--	--	20 J	4 J	2 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
	Depths (ft)	2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
	Sample ID	SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	NA	NA	6.17	7.60	3.27	NA	NA	NA	5.20 J	4.05	2.65 J
Barium	mg/kg	NA	NA	127	148	115	NA	NA	NA	84.2	97.6	82.0
Cadmium	mg/kg	NA	NA	--	--	--	NA	NA	NA	--	0.174 J	--
Chromium	mg/kg	NA	NA	19.6	22.8	18.9	NA	NA	NA	11.4	13.8	15.8
Lead	mg/kg	NA	NA	20.1	27.2	17.5	NA	NA	NA	19.1	23.3	14.9
Mercury	mg/kg	NA	NA	0.0535 J	0.0481 J	0.0344 J	NA	NA	NA	--	0.0431 J	0.0300 J
Nickel	mg/kg	NA	NA	14.6	17.8	12.0	NA	NA	NA	10.6	11.1	9.59
Selenium	mg/kg	NA	NA	--	--	--	NA	NA	NA	--	--	--
Silver	mg/kg	NA	NA	--	--	--	NA	NA	NA	--	--	--
Vanadium	mg/kg	NA	NA	32.0	36.7	32.3	NA	NA	NA	18.2	23.9	26.6
Other												
Black Carbon	%	NA	NA	--	NA	NA	NA	NA	NA	0.21 J	NA	NA
Percent Moisture	%	29.9	21.4	67.7	71.6	33.6	24.0	26.2	23.7	65.9	43.6	29.4
Total Organic Carbon	%	NA	NA	5.35	NA	NA	NA	NA	NA	8.65 J	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	NA	NA	1.68	3.97	1.60	NA	NA	NA	5.93	2.34	0.838
2-Methylnaphthalene	ug/kg	NA	NA	3.89	9.21	3.62	NA	NA	NA	12.2	5.29	1.80
Acenaphthene	ug/kg	NA	NA	1.57	1.85	0.655	NA	NA	NA	7.58	2.51	0.63
Acenaphthylene	ug/kg	NA	NA	3.48	5.02	1.07	NA	NA	NA	65.22	9.19	0.79
Anthracene	ug/kg	NA	NA	6.65 J	12.39 J	2.03	NA	NA	NA	115.96 J	12.27 J	1.23 J
Benzo(a)Anthracene	ug/kg	NA	NA	12.90	19.71	3.35	NA	NA	NA	171.95	44.98	2.65
Benzo(a)Pyrene	ug/kg	NA	NA	7.12	13.44	3.12	NA	NA	NA	123.60	16.71	--
Benzo(b)Fluoranthene	ug/kg	NA	NA	25.15	66.37	10.1	NA	NA	NA	385.97	62.78	4.36
Benzo(g,h,i)Perylene	ug/kg	NA	NA	16.86	36.40	4.44	NA	NA	NA	87.72	14.04	--
Benzo(j)+(k)Fluoranthene	ug/kg	NA	NA	6.07	18.39	2.13	NA	NA	NA	142.21	12.35	1.28
Chrysene/Triphenylene	ug/kg	NA	NA	14.82	28.05	7.89	NA	NA	NA	191.05	41.44	3.66
Dibenz(a,h)Anthracene	ug/kg	NA	NA	28.39	48.84	13.4	NA	NA	NA	29.02	6.81	--
Fluoranthene	ug/kg	NA	NA	20.72	42.44	12.1	NA	NA	NA	252.66	50.82	3.84
Fluorene	ug/kg	NA	NA	5.69	16.93	4.95	NA	NA	NA	20.86	9.22	3.06
Indeno[1,2,3-cd]pyrene	ug/kg	NA	NA	10.33	13.51	4.29	NA	NA	NA	93.73	14.65	--
Naphthalene	ug/kg	NA	NA	4.11	8.16	3.97	NA	NA	NA	11.12	5.94	2.43
Phenanthrene	ug/kg	NA	NA	20.68	47.19	16.5	NA	NA	NA	103.97	28.98	7.59
Pyrene	ug/kg	NA	NA	21.69	36.81	7.86	NA	NA	NA	199.19	53.46	3.73
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	NA	NA	9.31	27.90	5.55	NA	NA	NA	151.56	24.27	--
C1-Chrysenes	ug/kg	NA	NA	42.17	101.16	24.7	NA	NA	NA	164.46	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	NA	NA	15.54	39.13	9.67	NA	NA	NA	145.56	37.90	2.68
C1-Fluorenes	ug/kg	NA	NA	5.05	10.49	3.47	NA	NA	NA	10.69	4.75	1.40
C1-Phenanthrenes/Anthracenes	ug/kg	NA	NA	20.06	46.64	11.9	NA	NA	NA	80.24	26.44	5.95
C2-Chrysenes	ug/kg	NA	NA	24.93	77.43	18.4	NA	NA	NA	88.01	--	--
C2-Fluorenes	ug/kg	NA	NA	14.57	27.92	15.0	NA	NA	NA	48.20	11.25	2.04
C2-Naphthalenes	ug/kg	NA	NA	9.11	20.76	7.54	NA	NA	NA	29.42	10.79	3.51
C2-Phenanthrenes/Anthracenes	ug/kg	NA	NA	24.56	70.25	20.8	NA	NA	NA	84.71	28.37	6.40
C3-Chrysenes	ug/kg	NA	NA	15.08	53.31	14.9	NA	NA	NA	34.67	--	--
C3-Fluorenes	ug/kg	NA	NA	14.81	40.28	10.8	NA	NA	NA	26.49	14.34	--
C3-Naphthalenes	ug/kg	NA	NA	16.36	25.64	18.9	NA	NA	NA	--	15.63	7.14
C3-Phenanthrenes/Anthracenes	ug/kg	NA	NA	31.30	92.92	19.2	NA	NA	NA	83.36	18.66	2.01
C4-Chrysenes	ug/kg	NA	NA	12.88	28.82	10.4	NA	NA	NA	24.21	--	--
C4-Naphthalenes	ug/kg	NA	NA	10.79	22.78	10.8	NA	NA	NA	--	20.46	--
C4-Phenanthrenes/Anthracenes	ug/kg	NA	NA	33.85	72.06	15.1	NA	NA	NA	57.33	18.24	2.77
Perylene	ug/kg	NA	NA	291.88	373.54	164	NA	NA	NA	439.59	549.39	344.83
Phenanthrene, 2-methyl-	ug/kg	NA	NA	5.31	NA	NA	NA	NA	NA	22.4	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	2.24	NA	NA	NA	NA	NA	6.21	NA	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	1.23	NA	NA	NA	NA	NA	6.26	NA	NA
1-Methylfluorene	ug/kg	NA	NA	2.28	NA	NA	NA	NA	NA	6.64	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	3.75	NA	NA	NA	NA	NA	15.4	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	2.23	NA	NA	NA	NA	NA	3.87	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	4.10	NA	NA	NA	NA	NA	12.4	NA	NA
2-Methylanthracene	ug/kg	NA	NA	7.74	NA	NA	NA	NA	NA	25.8	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	2.78	NA	NA	NA	NA	NA	36.1	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	1.61	NA	NA	NA	NA	NA	6.04	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	6.27	NA	NA	NA	NA	NA	17.9	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	4.45	NA	NA	NA	NA	NA	14.7	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	3.86	NA	NA	NA	NA	NA	26.3	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	47.22	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

Location		SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
Depths (ft)		2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
Sample ID		SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	NA	NA	4.92	NA	NA	NA	NA	NA	35.9	NA	NA
Benzothiophene	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	1.23	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	2.00	NA	NA
C1-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	NA	NA	5.75	16.81	5.71	NA	NA	NA	19.64	5.18	0.78
C1-Naphthalenes	ug/kg	NA	NA	3.45	8.16	3.13	NA	NA	NA	11.19	4.72	1.63
C1-Naphthobenzothiophenes	ug/kg	NA	NA	24.33	NA	NA	NA	NA	NA	57.95	NA	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	21.87	NA	NA
C2-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	NA	NA	11.01	39.12	12.3	NA	NA	NA	34.52	7.96	0.78
C2-Fluoranthenes/Pyrenes	ug/kg	NA	NA	28.37	97.97	18.6	NA	NA	NA	119.03	30.77	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	38.50	NA	NA	NA	NA	NA	63.11	NA	NA
C30-Hopane	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	17.40	NA	NA
C3-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	NA	NA	14.42	66.25	21.5	NA	NA	NA	43.16	11.72	1.21
C3-Fluoranthenes/Pyrenes	ug/kg	NA	NA	15.66	45.60	16.8	NA	NA	NA	79.04	18.39	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	37.05	NA	NA	NA	NA	NA	45.98	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	7.57	NA	NA
C4-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	NA	NA	19.42	76.44	15.1	NA	NA	NA	38.17	10.12	1.46
C4-Fluoranthenes/Pyrenes	ug/kg	NA	NA	17.37	57.67	19.6	NA	NA	NA	57.46	18.38	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	21.24	NA	NA	NA	NA	NA	30.08	NA	NA
Carbazole	ug/kg	NA	NA	2.48	NA	NA	NA	NA	NA	14.18	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	23.56	NA	NA	NA	NA	NA	46.61	NA	NA
Dibenzofuran	ug/kg	NA	NA	3.53	NA	NA	NA	NA	NA	14.77	NA	NA
Dibenzothiophene	ug/kg	NA	NA	3.57	8.01	2.87	NA	NA	NA	13.09	3.60	0.97
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	4.28	NA	NA	NA	NA	NA	15.2	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	11.61	NA	NA	NA	NA	NA	64.46	NA	NA
Retene	ug/kg	NA	NA	60.9	NA	NA	NA	NA	NA	35.4	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	1384	NA	NA	NA	NA	NA	4220	NA	NA
i-C15	mg/kg	NA	NA	0.008 J	NA	NA	NA	NA	NA	0.030 J	NA	NA
i-C16	mg/kg	NA	NA	0.042	NA	NA	NA	NA	NA	0.241	NA	NA
i-C18	mg/kg	NA	NA	0.015	NA	NA	NA	NA	NA	0.079	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.004 J	NA	NA	NA	NA	NA	0.005 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.010 J	NA	NA	NA	NA	NA	0.017 J	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.010 J	NA	NA	NA	NA	NA	0.015 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.015 J	NA	NA	NA	NA	NA	0.036 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.026	NA	NA	NA	NA	NA	0.051	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.210	NA	NA	NA	NA	NA	0.514	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.020	NA	NA	NA	NA	NA	0.054	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.059	NA	NA	NA	NA	NA	0.894	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	0.674	NA	NA	NA	NA	NA	1.30	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.430	NA	NA	NA	NA	NA	0.881	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.092	NA	NA	NA	NA	NA	0.246	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	1.65	NA	NA	NA	NA	NA	2.91	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.149	NA	NA	NA	NA	NA	0.363	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	1.96	NA	NA	NA	NA	NA	3.38	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.239	NA	NA	NA	NA	NA	0.336	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	1.67	NA	NA	NA	NA	NA	2.77	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.190	NA	NA	NA	NA	NA	0.361	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	3.15	NA	NA	NA	NA	NA	4.17	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.371	NA	NA	NA	NA	NA	0.852	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	3.66	NA	NA	NA	NA	NA	8.23	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.425	NA	NA	NA	NA	NA	1.13	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	4.19	NA	NA	NA	NA	NA	14.7	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.247	NA	NA	NA	NA	NA	1.59	NA	NA
n-C33	mg/kg	NA	NA	4.59	NA	NA	NA	NA	NA	19.9	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
	Depths (ft)	2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
	Sample ID	SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	NA	NA	0.588	NA	NA	NA	NA	NA	1.33	NA	NA
n-C35	mg/kg	NA	NA	3.44	NA	NA	NA	NA	NA	9.65	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.231	NA	NA	NA	NA	NA	0.665	NA	NA
n-C37	mg/kg	NA	NA	1.07	NA	NA	NA	NA	NA	2.14	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.121	NA	NA	NA	NA	NA	0.472	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.330	NA	NA	NA	NA	NA	0.721	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.175	NA	NA	NA	NA	NA	0.840	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.086	NA	NA	NA	NA	NA	0.398	NA	NA
Total Alkanes	mg/kg	NA	NA	30.2	NA	NA	NA	NA	NA	81.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	393	NA	NA	NA	NA	NA	1296	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	309	NA	NA	NA	NA	NA	717	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	83	NA	NA	NA	NA	NA	579	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	13 J	7 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	17 J	10 J	69 J	44 J	14 J	9 J	--	--	65 J	63	36
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	2 J	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	20.8 J	4.15 J	2.35 J	NA	NA	6.87	1.92 J	1.92 J	5.21	12.2	5.99
Barium	mg/kg	511	143	109	NA	NA	125	89.5	71.0	132 J	305 J	179 J
Cadmium	mg/kg	--	--	--	NA	NA	--	--	--	--	0.275 J	0.170 J
Chromium	mg/kg	81.8	27.4	17.2	NA	NA	18.4	15.5	11.7	25.0 J	50.2 J	20.9 J
Lead	mg/kg	97.7	24.7	13.2	NA	NA	25.1	12.7	10.4	21.5 J	42.6 J	24.1 J
Mercury	mg/kg	0.155 J	0.0613 J	0.0243 J	NA	NA	0.0353 J	0.0209 J	0.0154 J	0.0278 J	0.0725 J	0.0648 J
Nickel	mg/kg	61.8	17.6	10.7	NA	NA	15.1	8.71	6.42	18.9 J	43.5 J	16.8 J
Selenium	mg/kg	--	--	--	NA	NA	--	--	--	--	--	--
Silver	mg/kg	--	--	--	NA	NA	--	--	--	--	--	--
Vanadium	mg/kg	137	44.6	28.9	NA	NA	32.6	25.7	19.8	37.2 J	79.3 J	40.7 J
Other												
Black Carbon	%	--	NA	NA	NA	NA	0.29 J	NA	NA	0.250 J	NA	NA
Percent Moisture	%	90.6	63.1	33.4	29.5	66.0	69.6	21.6	19.4	50.4	70.1	37.9
Total Organic Carbon	%	3.26	NA	NA	NA	NA	8.99	NA	NA	3.23	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	4.48	1.49	0.982	NA	NA	4.10	0.445 J	0.261 J	7.61	8.43	2.67
2-Methylnaphthalene	ug/kg	8.86	3.47	2.00	NA	NA	10.3	0.922 J	0.502 J	19.4	20.2	5.72
Acenaphthene	ug/kg	2.67	0.685	0.580	NA	NA	3.47	0.31	0.11	1.67	4.67	1.79
Acenaphthylene	ug/kg	3.02	0.797	0.449	NA	NA	8.77	0.17	0.07	4.44	4.18	1.82
Anthracene	ug/kg	5.33 J	1.28 J	0.828 J	NA	NA	19.56 J	0.32 J	--	10.2 J	5.71 J	2.61 J
Benzo(a)Anthracene	ug/kg	11.6	2.41	2.15	NA	NA	24.24	0.61	--	35.6	12.2	5.39
Benzo(a)Pyrene	ug/kg	5.87	1.47	--	NA	NA	16.31	--	--	24.1	5.84	4.06
Benzo(b)Fluoranthene	ug/kg	24.0	6.16	3.40	NA	NA	64.98	1.25	--	49.8	29.0	19.1
Benzo(g,h,i)Perylene	ug/kg	12.2	3.40	1.64	NA	NA	36.67	--	--	27.0	13.8	6.25
Benzo(j)+(k)Fluoranthene	ug/kg	5.43	1.58	0.944	NA	NA	18.28	0.35	--	14.3	6.55	2.14
Chrysene/Triphenylene	ug/kg	22.2	6.69	3.95	NA	NA	34.37	1.22	--	35.2	22.5	15.7
Dibenz(a,h)Anthracene	ug/kg	3.53	1.00	0.793	NA	NA	5.48	--	--	5.99	4.04	2.58
Fluoranthene	ug/kg	18.6	5.05	4.88	NA	NA	57.06	2.05	0.70	42.4	22.9	12.1
Fluorene	ug/kg	8.67	3.71	4.27	NA	NA	18.65	1.97	1.52	11.2	16.9	8.13
Indeno[1,2,3-cd]pyrene	ug/kg	11.4	2.65	1.57	NA	NA	20.32	--	--	20.1	10.3	6.40
Naphthalene	ug/kg	5.21	3.20	2.74	NA	NA	9.16	1.39	--	8.38	14.1	7.43
Phenanthrene	ug/kg	24.0	8.96	11.9	NA	NA	56.02	4.92	3.65	37.9	43.2	20.4
Pyrene	ug/kg	21.1	4.98	4.02	NA	NA	56.41	1.66	0.56	48.4	23.0	9.73
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	12.3	3.72	--	NA	NA	26.47	--	--	26.8	12.6	6.25
C1-Chrysenes	ug/kg	55.8	20.3	13.0	NA	NA	145.83	--	--	85.6	66.5	30.7
C1-Fluoranthenes/Pyrenes	ug/kg	21.8	6.05	2.81	NA	NA	41.70	1.11	0.30 J	36.8	23.0	8.94
C1-Fluorenes	ug/kg	8.59	2.05	1.94	NA	NA	8.63	1.02	0.80	12.0	14.3	4.53
C1-Phenanthrenes/Anthracenes	ug/kg	29.5	9.14	7.44	NA	NA	41.97	4.61	--	43.9	47.6	14.1
C2-Chrysenes	ug/kg	42.3	17.7	3.06	NA	NA	56.69	--	--	71.6	34.7	11.7
C2-Fluorenes	ug/kg	22.57	10.7	3.59	NA	NA	36.34	1.75	--	44.6	55.9	10.3
C2-Naphthalenes	ug/kg	21.3	7.73	4.41	NA	NA	20.73	1.73	0.95	61.9	84.2	17.9
C2-Phenanthrenes/Anthracenes	ug/kg	64.5	16.3	7.84	NA	NA	51.22	6.69	--	66.9	80.0	16.9
C3-Chrysenes	ug/kg	31.5	15.7	1.75	NA	NA	44.75	--	--	52.7	36.7	10.4
C3-Fluorenes	ug/kg	30.88	10.8	6.02	NA	NA	31.05	--	--	32.6	39.8	13.3
C3-Naphthalenes	ug/kg	--	13.3	5.68	NA	NA	27.21	5.68	1.49	87.2	158	37.1
C3-Phenanthrenes/Anthracenes	ug/kg	56.2	16.5	3.72	NA	NA	75.08	1.33	--	69.7	87.6	13.2
C4-Chrysenes	ug/kg	17.4	7.18	--	NA	NA	35.60	--	--	25.9	17.5	4.12
C4-Naphthalenes	ug/kg	22.8	6.58	6.96	NA	NA	16.06	2.09	--	50.8	96.3	11.6
C4-Phenanthrenes/Anthracenes	ug/kg	46.1	14.0	3.40	NA	NA	71.93	1.97	--	71.0	81.7	12.5
Perylene	ug/kg	1905 EJ	153	567 EJ	NA	NA	818.38 EJ	303.95	65.69	197	518 EJ	567 EJ
Phenanthrene, 2-methyl-	ug/kg	9.72	NA	NA	NA	NA	12.9	NA	NA	16.6	NA	NA
1,1-Biphenyl	ug/kg	5.12	NA	NA	NA	NA	5.73	NA	NA	4.95	NA	NA
18a-Oleanane	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	4.12	NA	NA	NA	NA	2.37	NA	NA	4.16	NA	NA
1-Methylfluorene	ug/kg	4.75	NA	NA	NA	NA	5.00	NA	NA	7.14	NA	NA
1-Methylphenanthrene	ug/kg	6.51	NA	NA	NA	NA	8.76	NA	NA	8.19	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	4.41	NA	NA	NA	NA	2.91	NA	NA	13.0	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	8.38	NA	NA	NA	NA	8.23	NA	NA	11.8	NA	NA
2-Methylanthracene	ug/kg	7.67	NA	NA	NA	NA	13.6	NA	NA	9.03	NA	NA
2-Methylfluoranthene	ug/kg	3.39	NA	NA	NA	NA	7.58	NA	NA	6.17	NA	NA
3,6-Dimethylphenanthrene	ug/kg	18.7	NA	NA	NA	NA	3.24	NA	NA	4.54	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	9.09	NA	NA	NA	NA	12.0	NA	NA	15.1	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	10.4	NA	NA	NA	NA	8.43	NA	NA	14.7	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	6.66	NA	NA	NA	NA	9.15	NA	NA	9.94	NA	NA
Benzo(a)Fluoranthene	ug/kg	--	NA	NA	NA	NA	--	NA	NA	7.20	NA	NA

	Location	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	6.09	NA	NA	NA	NA	12.2	NA	NA	12.1	NA	NA
Benzothiophene	ug/kg	0.855	NA	NA	NA	NA	1.33	NA	NA	1.25	NA	NA
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C1-Decalins	ug/kg	49.0	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	13.5	2.98	1.09	NA	NA	11.20	0.37	--	18.0	21.1	3.72
C1-Naphthalenes	ug/kg	8.24	3.07	1.84	NA	NA	8.90	0.84 J	0.47 J	16.8	17.7	5.18
C1-Naphthobenzothiophenes	ug/kg	56.2	NA	NA	NA	NA	89.05	NA	NA	84.7	NA	NA
C20-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C2-Decalins	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	28.4	6.94	1.55	NA	NA	23.54	0.64	--	34.7	44.7	6.27
C2-Fluoranthenes/Pyrenes	ug/kg	46.9	13.6	3.06	NA	NA	97.15	--	--	65.7	36.5	15.5
C2-Naphthobenzothiophenes	ug/kg	120	NA	NA	NA	NA	142.97	NA	NA	181	NA	NA
C30-Hopane	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C3-Decalins	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	48.9	16.2	2.18	NA	NA	41.71	1.36	--	63.9	89.7	12.2
C3-Fluoranthenes/Pyrenes	ug/kg	37.3	13.2	2.25	NA	NA	55.80	--	--	51.8	31.7	10.6
C3-Naphthobenzothiophenes	ug/kg	118	NA	NA	NA	NA	142.89	NA	NA	156	NA	NA
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C4-Decalins	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	49.0	16.9	1.69	NA	NA	43.70	1.24	--	56.1	71.2	9.30
C4-Fluoranthenes/Pyrenes	ug/kg	38.5	13.1	3.74	NA	NA	45.25	--	--	54.3	46.3	14.3
C4-Naphthobenzothiophenes	ug/kg	48.2	NA	NA	NA	NA	56.06	NA	NA	95.0	NA	NA
Carbazole	ug/kg	2.79	NA	NA	NA	NA	5.10	NA	NA	4.07	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	20.2	NA	NA	NA	NA	39.83	NA	NA	35.9	NA	NA
Dibenzofuran	ug/kg	4.64	NA	NA	NA	NA	9.96	NA	NA	7.14	NA	NA
Dibenzothiophene	ug/kg	7.05	1.70	1.18	NA	NA	8.76	0.49	0.17	8.94	9.30	3.13
Naphthalene, 2,6-dimethyl-	ug/kg	11.6	NA	NA	NA	NA	10.5	NA	NA	35.5	NA	NA
Naphthobenzothiophene	ug/kg	19.5	NA	NA	NA	NA	35.02	NA	NA	29.7	NA	NA
Retene	ug/kg	4.69	NA	NA	NA	NA	32.1	NA	NA	6.11	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	1753	NA	NA	NA	NA	2875	NA	NA	1462	NA	NA
i-C15	mg/kg	0.019	NA	NA	NA	NA	0.012 J	NA	NA	0.084	NA	NA
i-C16	mg/kg	0.053	NA	NA	NA	NA	0.096	NA	NA	0.131	NA	NA
i-C18	mg/kg	0.025	NA	NA	NA	NA	0.047	NA	NA	0.096	NA	NA
n-C10 (n-Decane)	mg/kg	0.004 J	NA	NA	NA	NA	--	NA	NA	0.015 J	NA	NA
n-C11 (n-Undecane)	mg/kg	0.012 J	NA	NA	NA	NA	0.025	NA	NA	0.025	NA	NA
n-C12 (n-Dodecane)	mg/kg	0.014 J	NA	NA	NA	NA	0.023	NA	NA	0.035	NA	NA
n-C13 (n-Tridecane)	mg/kg	0.016 J	NA	NA	NA	NA	0.034 J	NA	NA	0.050	NA	NA
n-C14 (n-Tetradecane)	mg/kg	0.024	NA	NA	NA	NA	0.043	NA	NA	0.088	NA	NA
n-C15 (Pentadecane)	mg/kg	0.195	NA	NA	NA	NA	0.475	NA	NA	0.362	NA	NA
n-C16 (n-Hexadecane)	mg/kg	0.013	NA	NA	NA	NA	0.034	NA	NA	0.046	NA	NA
n-C17 (Heptadecane)	mg/kg	0.111	NA	NA	NA	NA	0.136	NA	NA	0.147	NA	NA
n-C18 (Octadecane)	mg/kg	0.498	NA	NA	NA	NA	1.18	NA	NA	0.733	NA	NA
n-C19 (Nonadecane)	mg/kg	0.433	NA	NA	NA	NA	0.910	NA	NA	0.711	NA	NA
n-C20 (Eicosane)	mg/kg	0.176	NA	NA	NA	NA	0.209	NA	NA	0.126	NA	NA
n-C21 (Heneicosane)	mg/kg	1.85	NA	NA	NA	NA	3.46	NA	NA	1.24	NA	NA
n-C22 (Docosane)	mg/kg	0.218	NA	NA	NA	NA	0.383	NA	NA	0.163	NA	NA
n-C23 (Tricosane)	mg/kg	1.86	NA	NA	NA	NA	5.45	NA	NA	1.86	NA	NA
n-C24 (Tetracosane)	mg/kg	0.273	NA	NA	NA	NA	0.620	NA	NA	0.182	NA	NA
n-C25 (Pentacosane)	mg/kg	1.37	NA	NA	NA	NA	3.79	NA	NA	1.45	NA	NA
n-C26 (Hexacosane)	mg/kg	0.179	NA	NA	NA	NA	0.414	NA	NA	0.190	NA	NA
n-C27 (Heptacosane)	mg/kg	1.55	NA	NA	NA	NA	4.45	NA	NA	1.56	NA	NA
n-C28 (Octacosane)	mg/kg	0.448	NA	NA	NA	NA	0.697	NA	NA	0.219	NA	NA
n-C29 (Nonacosane)	mg/kg	3.77	NA	NA	NA	NA	7.36	NA	NA	1.91	NA	NA
n-C30 (n-Triacontane)	mg/kg	0.584	NA	NA	NA	NA	1.04	NA	NA	0.285	NA	NA
n-C31 (Hentriacontane)	mg/kg	5.45	NA	NA	NA	NA	6.66	NA	NA	1.62	NA	NA
n-C32 (Dotriacontane)	mg/kg	0.367	NA	NA	NA	NA	0.940	NA	NA	0.433	NA	NA
n-C33	mg/kg	9.40	NA	NA	NA	NA	5.38	NA	NA	1.50	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	0.523	NA	NA	NA	NA	0.914	NA	NA	0.193	NA	NA
n-C35	mg/kg	2.74	NA	NA	NA	NA	3.19	NA	NA	0.898	NA	NA
n-C36 (Hexatriacontane)	mg/kg	0.238	NA	NA	NA	NA	0.583	NA	NA	0.122	NA	NA
n-C37	mg/kg	1.17	NA	NA	NA	NA	2.05	NA	NA	0.523	NA	NA
n-C38 (Octatriacontane)	mg/kg	0.143	NA	NA	NA	NA	0.259	NA	NA	0.139	NA	NA
n-C39 (Nonatriacontane)	mg/kg	0.231	NA	NA	NA	NA	0.698	NA	NA	0.285	NA	NA
n-C40 (Tetracontane)	mg/kg	--	NA	NA	NA	NA	--	NA	NA	0.133	NA	NA
n-C9 (Nonane)	mg/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.201	NA	NA	NA	NA	0.316	NA	NA	0.337	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.105	NA	NA	NA	NA	0.174	NA	NA	0.195	NA	NA
Total Alkanes	mg/kg	34.3	NA	NA	NA	NA	52.1	NA	NA	18.1	NA	NA
Total Petroleum Hydrocarbons	mg/kg	510	NA	NA	NA	NA	1125	NA	NA	467	NA	NA
Total Resolveable Hydrocarbons	mg/kg	248	NA	NA	NA	NA	584	NA	NA	220	NA	NA
Unresolved Complex Mixture	mg/kg	262	NA	NA	NA	NA	541	NA	NA	247	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	90 J	--	--	--	--	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	420	66 J	18 J	11 J	60 J	96 J	13 J	8 J	--	73 J	23 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	3 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	6.30	2.37 J	1.83 J	3.23	4.20	4.40	2.42 J	3.56	2.31 J	2.44	9.84 J
Barium	mg/kg	130 J	112 J	76.6 J	86.6	123	125	66.9	64.8	66.1	60.4	171
Cadmium	mg/kg	0.207 J	--	--	0.196 J	0.282 J	0.370 J	0.115 J	0.154 J	0.131 J	0.0907 J	0.742 J
Chromium	mg/kg	26.7 J	17.3 J	14.6 J	13.2 J	17.1 J	18.9 J	11.3 J	11.4 J	12.0 J	10.0 J	25.6 J
Lead	mg/kg	25.8 J	15.3 J	11.0 J	18.2	19.7	22.0	10.7	11.8	10.3	9.16	28.2
Mercury	mg/kg	0.0418 J	0.0425 J	0.0417 J	0.0253 J	0.0322 J	0.0330 J	0.0177 J	0.0155 J	0.0186 J	--	0.0703 J
Nickel	mg/kg	20.9 J	9.81 J	7.41 J	10.2	13.9	15.9	7.75	7.19	7.60	5.73	22.8
Selenium	mg/kg	--	--	--	--	1.08 J	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	43.5 J	31.0 J	25.8 J	22.1	27.9	29.4	19.0	18.9	20.2	14.6	39.4
Other												
Black Carbon	%	0.190 J	NA	NA	--	NA	NA	--	--	NA	NA	0.35 J
Percent Moisture	%	61.0	25.2	23.9	27.9	24.9	35.6	20.2	19.2	20.2	17.0	85.2
Total Organic Carbon	%	4.91	NA	NA	1.93	NA	NA	0.9 J	0.4 J	NA	NA	8.55
Priority PAHs												
1-Methylnaphthalene	ug/kg	6.70	1.63	0.376 J	30.0	255	45.3	4.36	4.09	0.461 J	0.521 J	20.9
2-Methylnaphthalene	ug/kg	16.4	3.73	0.860 J	52.5	314	69.6	6.98	7.41	0.967 J	1.05 J	33.9
Acenaphthene	ug/kg	3.79	1.01	--	5.34	18.0	6.0	0.580 J	--	0.106	0.150	3.44
Acenaphthylene	ug/kg	4.31	0.569	--	6.37	15.3	5.5	0.541	0.383	0.105	0.043	11.6
Anthracene	ug/kg	8.58 J	0.661 J	--	3.14	--	--	--	--	--	--	15.6
Benzo(a)Anthracene	ug/kg	20.0	1.31	0.181 J	18.2 J	28.4	11.4	1.3	1.17	--	--	16.1
Benzo(a)Pyrene	ug/kg	11.9	--	--	60.4	29.8	21.5	1.81	1.55	--	--	25.5
Benzo(b)Fluoranthene	ug/kg	43.9	5.51	0.419	110	48.4	54.6	4.10	3.48	--	--	72.9
Benzo(g,h,i)Perylene	ug/kg	14.2	1.44	--	89.2	38.2	24.3	3.37	3.29	--	--	66.2
Benzo(j)+(k)Fluoranthene	ug/kg	10.7	1.01	0.099	66.2	28.3	14.4	1.77	1.41	--	--	35.1
Chrysene/Triphenylene	ug/kg	32.3	3.90	0.324	107	101	62.8	7.4	6.62	--	--	36.1
Dibenz(a,h)Anthracene	ug/kg	4.74	1.84	--	22.5 J	10.3	6.21	0.797	0.819	--	--	11.7
Fluoranthene	ug/kg	31.8	4.05	1.35	65.2	64.1	50.2	4.15	4.10	0.956	0.719	45.9
Fluorene	ug/kg	16.0	5.63	2.56	37.4	74.0	30.0	2.75	3.92	1.69	1.65	18.4
Indeno[1,2,3-cd]pyrene	ug/kg	12.6	1.48	--	36.8	16.6	16.7	1.15	1.20	--	--	48.9
Naphthalene	ug/kg	12.7	4.51	1.17	6.72	28.9	11.0	2.69	3.75	--	1.26	17.0
Phenanthrene	ug/kg	34.2	13.7	6.23	119	250	91.2	11.5	13.4	4.52	4.47	42.6
Pyrene	ug/kg	35.2	2.83	0.621	127	82.5	43.4	6.94	5.97	0.282	0.570	44.5
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	21.2	--	--	149	56.3	37.0	4.69	4.63	--	--	48.0
C1-Chrysenes	ug/kg	71.5	--	--	320	338	112	23.5	19.4	--	--	119
C1-Fluoranthenes/Pyrenes	ug/kg	33.4	2.52	0.403 J	390	347	141	24.4	21.0	0.378 J	0.737	71.5
C1-Fluorenes	ug/kg	10.9	2.25	0.854	167	242	102	10.5	10.5	0.695	0.634	38.1
C1-Phenanthrenes/Anthracenes	ug/kg	37.6	7.11	3.98	643	745	248	33.2	30.2	--	--	92.3
C2-Chrysenes	ug/kg	59.7	--	--	417	372	123	33.4	29.5	--	--	95.9
C2-Fluorenes	ug/kg	41.8	3.36	--	906	594	244	41.8	35.2	--	--	111
C2-Naphthalenes	ug/kg	34.2	9.55	3.17	330	1164	275	29.7	24.3	1.97	1.72	127
C2-Phenanthrenes/Anthracenes	ug/kg	69.0	6.42	--	1529	1288	378	83.8	72.7	--	--	198
C3-Chrysenes	ug/kg	41.4	--	--	351	278	102	27.1	22.1	--	--	62.1
C3-Fluorenes	ug/kg	41.3	--	--	1456	675	295	54.8	48.5	--	--	172
C3-Naphthalenes	ug/kg	50.8	6.48	4.69	784	1181	376	45.8	44.3	3.09	4.28	196
C3-Phenanthrenes/Anthracenes	ug/kg	78.9	1.33	--	1814	1457	472	109	98.7	--	--	258
C4-Chrysenes	ug/kg	23.4	--	--	182	143	56.2	11.3	12.0	--	--	49.4
C4-Naphthalenes	ug/kg	30.6	28.2	5.65	1196	1053	362	59.7	54.5	1.77	--	190
C4-Phenanthrenes/Anthracenes	ug/kg	70.8	1.65	--	1253	879	309	79.7	69.5	--	--	195
Perylene	ug/kg	303	892 EJ	264	38.4	37.5	35.2	1.09 J	1.38 J	1.58 J	2.58 J	197
Phenanthrene, 2-methyl-	ug/kg	13.3	NA	NA	237 J	NA	NA	11.95 J	10.5 J	NA	NA	35.5
1,1-Biphenyl	ug/kg	6.77	NA	NA	11.0	NA	NA	2.21	2.20	NA	NA	8.41
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
1-Methyldibenzothiophene(1MDT)	ug/kg	4.41	NA	NA	227	NA	NA	11.1	9.71	NA	NA	31.4
1-Methylfluorene	ug/kg	6.50	NA	NA	125	NA	NA	7.19	6.41	NA	NA	25.0
1-Methylphenanthrene	ug/kg	7.99	NA	NA	211	NA	NA	9.48	8.57	NA	NA	26.8
2,3,5-Trimethylnaphthalene	ug/kg	4.12	NA	NA	130	NA	NA	6.20	8.63	NA	NA	21.5
2/3-Methyldibenzothiophene(2MDT)	ug/kg	11.0	NA	NA	264	NA	NA	16.0	13.0	NA	NA	38.6
2-Methylanthracene	ug/kg	9.39	NA	NA	18.2	NA	NA	3.36	3.30	NA	NA	9.80
2-Methylfluoranthene	ug/kg	4.98	NA	NA	39	NA	NA	2.23	1.72	NA	NA	6.11
3,6-Dimethylphenanthrene	ug/kg	4.27	NA	NA	112	NA	NA	5.90	4.14	NA	NA	11.2
3-Methylphenanthrene (3MP)	ug/kg	11.6	NA	NA	184	NA	NA	10.2	9.74	NA	NA	26.9
4-Methyldibenzothiophene(4MDT)	ug/kg	11.9	NA	NA	396	NA	NA	19.8	17.3	NA	NA	50.4
9/4-Methylphenanthrene (9MP)	ug/kg	8.21	NA	NA	280	NA	NA	13.1	11.6	NA	NA	42.5
Benzo(a)Fluoranthene	ug/kg	10.3	NA	NA	--	NA	NA	--	--	NA	NA	16.9

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	9.60	NA	NA	22.3 J	NA	NA	1.45	1.38	NA	NA	11.8
Benzothiophene	ug/kg	1.61	NA	NA	1.98	NA	NA	0.164	0.299	NA	NA	--
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	36.6	NA	NA	1.41	1.66	NA	NA	--
C1-Decalins	ug/kg	--	NA	NA	72.8	NA	NA	0.632 J	1.16 J	NA	NA	--
C1-Dibenzothiophenes	ug/kg	16.0	1.21	--	772.6	939	273	40.8	34.8	0.447	0.269	94.7
C1-Naphthalenes	ug/kg	14.3	3.31	0.764 J	44.4	305	61.8	6.10	6.20	0.771 J	0.85 J	36.9
C1-Naphthobenzothiophenes	ug/kg	106	NA	NA	515	NA	NA	43.7	34.9	NA	NA	114
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
C29-Hopane	ug/kg	--	NA	NA	2156	NA	NA	89.8	85.8	NA	NA	--
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	88.2	NA	NA	7.08	5.90	NA	NA	--
C2-Decalins	ug/kg	--	NA	NA	293	NA	NA	1.74 J	4.51 J	NA	NA	--
C2-Dibenzothiophenes	ug/kg	36.5	0.923	--	1812	1613	509	94.4	85.5	0.643	0.435	213
C2-Fluoranthenes/Pyrenes	ug/kg	77.2	--	--	465	521	179	35.8	28.8	--	--	108
C2-Naphthobenzothiophenes	ug/kg	184	NA	NA	818	NA	NA	69.7	58.3	NA	NA	197
C30-Hopane	ug/kg	--	NA	NA	3003	NA	NA	120	114	NA	NA	--
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	288	NA	NA	15.0	19.4	NA	NA	--
C3-Decalins	ug/kg	--	NA	NA	1005	NA	NA	12.8	21.0	NA	NA	--
C3-Dibenzothiophenes	ug/kg	79.9	0.470	--	2675	1803	615	155	132	0.775	0.351	323
C3-Fluoranthenes/Pyrenes	ug/kg	49.7	--	--	441	334	158	34.5	27.2	--	--	80.9
C3-Naphthobenzothiophenes	ug/kg	148	NA	NA	593	NA	NA	59.0	42.3	NA	NA	155
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	557	NA	NA	21.1	19.2	NA	NA	--
C4-Decalins	ug/kg	--	NA	NA	1064	NA	NA	34.6	39.7	NA	NA	--
C4-Dibenzothiophenes	ug/kg	69.9	0.850	--	1881	1223	433	108	93.6	--	--	246
C4-Fluoranthenes/Pyrenes	ug/kg	59.4	--	--	494	409	161	36.1	28.8	--	--	89.3
C4-Naphthobenzothiophenes	ug/kg	69.1	NA	NA	338	NA	NA	32.3	22.4	NA	NA	76.6
Carbazole	ug/kg	4.04	NA	NA	8.54	NA	NA	0.706	0.469	NA	NA	8.36
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	28.5	NA	NA	18.3 J	NA	NA	1.10	1.77	NA	NA	38.1
Dibenzofuran	ug/kg	9.36	NA	NA	14.9 J	NA	NA	1.66	2.44	NA	NA	10.7
Dibenzothiophene	ug/kg	8.64	1.37	0.214	142.3	221	84.2	9.5	8.18	0.500	0.336	31.2
Naphthalene, 2,6-dimethyl-	ug/kg	20.0	NA	NA	174	NA	NA	16.8	13.7	NA	NA	50.9
Naphthobenzothiophene	ug/kg	35.0	NA	NA	172	NA	NA	15.6	12.4	NA	NA	37.0
Retene	ug/kg	8.14	NA	NA	120	NA	NA	7.33 J	14.9 J	NA	NA	27.3
TPH												
EOM (Extracted Organic Material)	mg/kg	2101	NA	76 J	5024	NA	NA	332	277	NA	NA	5132
i-C15	mg/kg	0.033	NA	0.006 J	1.092	NA	NA	0.004 J	0.037	NA	NA	0.141
i-C16	mg/kg	0.084	NA	0.008	1.658	NA	NA	0.014 J	0.033 J	NA	NA	0.612
i-C18	mg/kg	0.043	NA	0.008	1.387	NA	NA	0.066	0.061	NA	NA	0.201
n-C10 (n-Decane)	mg/kg	0.016 J	NA	0.006 J	0.016 J	NA	NA	--	--	NA	NA	0.010 J
n-C11 (n-Undecane)	mg/kg	0.025	NA	0.007 J	0.020	NA	NA	0.003 J	0.003 J	NA	NA	0.042
n-C12 (n-Dodecane)	mg/kg	0.029	NA	0.015 J	0.148	NA	NA	0.010 J	0.025	NA	NA	0.065
n-C13 (n-Tridecane)	mg/kg	0.036 J	NA	0.014 J	0.201	NA	NA	0.006 J	0.020 J	NA	NA	0.091
n-C14 (n-Tetradecane)	mg/kg	0.049	NA	0.026	0.393	NA	NA	0.028	0.052	NA	NA	0.153
n-C15 (Pentadecane)	mg/kg	0.272	NA	0.071	0.593	NA	NA	0.035	0.032	NA	NA	0.267
n-C16 (n-Hexadecane)	mg/kg	0.035	NA	0.040	0.373	NA	NA	0.042	0.069	NA	NA	0.172
n-C17 (Heptadecane)	mg/kg	0.236	NA	0.014	0.990	NA	NA	0.044	0.060	NA	NA	0.711
n-C18 (Octadecane)	mg/kg	0.753	NA	0.049	0.740	NA	NA	0.064	0.082	NA	NA	1.402
n-C19 (Nonadecane)	mg/kg	0.742	NA	0.029	0.638	NA	NA	0.046	0.056	NA	NA	1.100
n-C20 (Eicosane)	mg/kg	0.144	NA	0.008 J	0.452	NA	NA	0.032	0.040	NA	NA	0.179
n-C21 (Heneicosane)	mg/kg	1.59	NA	0.012	0.442	NA	NA	0.041	0.046	NA	NA	3.347
n-C22 (Docosane)	mg/kg	0.257	NA	0.011	0.246	NA	NA	0.028	0.038	NA	NA	0.392
n-C23 (Tricosane)	mg/kg	3.03	NA	0.034	0.262	NA	NA	0.043	0.048	NA	NA	3.971
n-C24 (Tetracosane)	mg/kg	0.319	NA	0.015	0.548	NA	NA	0.061	0.068	NA	NA	0.766
n-C25 (Pentacosane)	mg/kg	1.88	NA	0.045	0.666	NA	NA	0.095	0.110	NA	NA	4.088
n-C26 (Hexacosane)	mg/kg	0.251	NA	0.009	0.486	NA	NA	0.075	0.097	NA	NA	0.525
n-C27 (Heptacosane)	mg/kg	2.50	NA	0.046	0.895	NA	NA	0.162	0.179	NA	NA	5.039
n-C28 (Octacosane)	mg/kg	0.664	NA	0.009 J	0.484	NA	NA	0.133	0.143	NA	NA	1.088
n-C29 (Nonacosane)	mg/kg	6.567	NA	0.088	2.401 J	NA	NA	0.340	0.355	NA	NA	7.876
n-C30 (n-Triacontane)	mg/kg	0.682	NA	0.016	0.521	NA	NA	0.110	0.106	NA	NA	0.463
n-C31 (Hentriacontane)	mg/kg	9.38	NA	0.108	3.104	NA	NA	0.376	0.350	NA	NA	12.187
n-C32 (Dotriacontane)	mg/kg	0.298	NA	0.035	0.429	NA	NA	0.035	0.039	NA	NA	1.187
n-C33	mg/kg	15.2	NA	0.116	0.960	NA	NA	0.144	0.184	NA	NA	17.630

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	1.36	NA	0.013 J	0.098	NA	NA	0.026	0.032	NA	NA	1.039
n-C35	mg/kg	8.62	NA	0.068	0.799	NA	NA	0.073	0.060	NA	NA	12.806
n-C36 (Hexatriacontane)	mg/kg	0.409	NA	--	0.053	NA	NA	0.011 J	0.029	NA	NA	0.523
n-C37	mg/kg	1.81	NA	--	0.691	NA	NA	0.043	0.044	NA	NA	0.833
n-C38 (Octatriacontane)	mg/kg	0.171	NA	--	0.037	NA	NA	0.010 J	0.011 J	NA	NA	0.392
n-C39 (Nonatriacontane)	mg/kg	0.362	NA	--	--	NA	NA	0.005 J	0.002 J	NA	NA	0.726
n-C40 (Tetracontane)	mg/kg	0.147	NA	--	--	NA	NA	0.005 J	0.009 J	NA	NA	0.059
n-C9 (Nonane)	mg/kg	--	NA	--	0.014	NA	NA	--	--	NA	NA	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.291	NA	0.010	3.175	NA	NA	0.177	0.159	NA	NA	0.794
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.161	NA	0.014	2.535 J	NA	NA	0.137	0.126	NA	NA	0.534
Total Alkanes	mg/kg	58.5	NA	1.0	27.5	NA	NA	2.5	2.8	NA	NA	81.4
Total Petroleum Hydrocarbons	mg/kg	692	NA	67	2832	NA	NA	322	243	NA	NA	1469
Total Resolveable Hydrocarbons	mg/kg	343	NA	17	259	NA	NA	23	17	NA	NA	636
Unresolved Complex Mixture	mg/kg	349	NA	50	2573	NA	NA	299	226	NA	NA	833
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	5 J	2 J	16	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	3 J	2 J	10	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	1 J	--	2 J	--	--	--	--	--
Acetone	ug/kg	65 J	12 J	--	18 J	26	31	8 J	12 J	--	--	230
Benzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	2 J	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	2 J	--	2 J	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	2 J	--	3 J	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	3 J	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	19 J
Xylene (Total)	ug/kg	--	--	--	2 J	3 J	26	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	6.68 J	5.14	6.99	4.72	3.47	8.33	4.38	5.65	8.11	6.40	4.62
Barium	mg/kg	143	119	135	112	105	167	93.8	209	168	139	112
Cadmium	mg/kg	0.523 J	0.408 J	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	19.4 J	16.4 J	21.9 J	17.7 J	19.2 J	21.1 J	16.0 J	14.5 J	18.7 J	12.9 J	16.7 J
Lead	mg/kg	24.6	19.4	24.6	19.7	15.3	36.0	18.9	14.6	35.2	18.7	13.1
Mercury	mg/kg	0.0457 J	0.0462 J	0.0552 J	0.0413 J	0.0240 J	0.0618 J	0.0507 J	0.0262 J	0.0766 J	0.0357 J	0.0158 J
Nickel	mg/kg	16.7	13.7	17.4	11.1	9.39	18.5	14.9	10.3	17.2	10.8	7.04
Selenium	mg/kg	--	--	--	1.19 J	1.29 J	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	32.2	26.5	38.1	37.1	39.1	36.4	26.4	25.6	33.3	27.1	32.6
Other												
Black Carbon	%	NA	NA	--	NA	NA	0.2 J	NA	NA	0.24 J	NA	NA
Percent Moisture	%	73.1	61.8	67.7	29.4	23.2	43.8	22.6	20.1	45.9	21.2	20.7
Total Organic Carbon	%	NA	NA	4.27	NA	NA	3.66	NA	NA	6.03	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	3.85	2.44	6.74 J	2.69	1.51	58.8	13.6	1.86	29.6	3.04	3.12
2-Methylnaphthalene	ug/kg	9.03	5.35	13.2 J	5.57	3.16	89.3	22.5	3.76	42.8	5.88	5.84
Acenaphthene	ug/kg	2.46	1.08	1.55	0.578	0.319	7.61	1.26	0.089	3.47	0.297	0.238
Acenaphthylene	ug/kg	6.30	2.66	1.43	0.554	0.155	9.75	1.13	0.131	6.45	0.385	0.092
Anthracene	ug/kg	13.6	5.00	2.09	0.760	0.154	6.31	--	--	--	0.264	--
Benzo(a)Anthracene	ug/kg	10.5	5.47	2.62	1.19	0.227	22.0	1.31	0.307	15.5	--	--
Benzo(a)Pyrene	ug/kg	9.81	4.58	3.27	1.16	--	21.3	2.69	0.136	17.7	0.802	--
Benzo(b)Fluoranthene	ug/kg	41.5	25.2	10.9 J	5.82	2.08	53.9	9.77	0.799	46.7	3.23	0.377
Benzo(g,h,i)Perylene	ug/kg	--	7.77	5.96	2.13	0.402	44.9	4.76	0.390	32.8	0.954	0.188
Benzo(j)+(k)Fluoranthene	ug/kg	11.8	6.01	2.29	1.03	0.196	15.9	2.44	0.179	14.8	0.685	0.064 J
Chrysene/Triphenylene	ug/kg	22.8	14.1	9.00	4.55	1.74	153	15.6	0.968	113	--	--
Dibenz(a,h)Anthracene	ug/kg	6.89	3.58	2.54	1.37	0.166	9.83	1.20	0.113	7.25	0.351	0.277
Fluoranthene	ug/kg	24.0	12.0	9.81 J	4.98	1.62	51.4	11.3	1.70	47.1	3.37	1.54
Fluorene	ug/kg	12.2	7.45	9.75 J	4.41	3.85	46.1	8.59	3.37	16.5	4.13	5.02
Indeno[1,2,3-cd]pyrene	ug/kg	--	8.25	5.30	2.16	0.488	17.4	2.65	0.249	14.0	0.914	--
Naphthalene	ug/kg	9.78	5.65	11.9 J	6.95	4.92	15.3	12.2	3.72	14.6	7.42	6.23
Phenanthrene	ug/kg	24.4	14.1	23.1 J	10.9	8.89	225	39.6	10.2	161	11.7	12.1
Pyrene	ug/kg	19.8	9.74	8.05 J	3.55	1.20	101	12.5	1.36	65.4	2.66	1.16
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	16.0	10.1	5.64 J	2.90	--	53.4	6.82	0.614	43.8	1.52	--
C1-Chrysenes	ug/kg	42.0	49.7	48.1	28.2	--	335	34.9	2.60	236	8.20	4.89
C1-Fluoranthenes/Pyrenes	ug/kg	18.8	12.6	9.47	4.17	0.928	355	31.4	1.72	201	3.44	0.819
C1-Fluorenes	ug/kg	3.50	2.47	7.35	2.55	1.69	215	20.7	2.16	89.7	2.56	2.29
C1-Phenanthrenes/Anthracenes	ug/kg	26.4	16.8	14.4	6.15	3.99	831	77.4	6.83	516	9.28	4.34
C2-Chrysenes	ug/kg	36.7	28.1	20.7	7.14	--	484	38.9	3.07	324	4.96	--
C2-Fluorenes	ug/kg	13.6	8.74	20.4	7.32	4.79	628	64.2	6.62	314	7.91	2.88
C2-Naphthalenes	ug/kg	18.9	13.2	23.7	8.24	4.10	614	63.7	6.30	252	9.50	8.84
C2-Phenanthrenes/Anthracenes	ug/kg	26.0	23.9	22.5	8.84	--	1570	138	10.6	1008	14.7	4.31
C3-Chrysenes	ug/kg	19.5	18.9	18.1	9.10	--	407	28.5	2.58	254	4.08	--
C3-Fluorenes	ug/kg	9.80	6.80	16.5	6.16	--	920	71.7	6.63	501	12.5	--
C3-Naphthalenes	ug/kg	18.8	11.9	26.1	13.3	8.87	1196	101	8.54	590	13.0	7.79
C3-Phenanthrenes/Anthracenes	ug/kg	26.8	18.4	21.1	6.09	--	1736	145	10.3	1088	16.7	0.940
C4-Chrysenes	ug/kg	13.8	13.8	7.08	--	--	164	16.9	--	125	--	--
C4-Naphthalenes	ug/kg	13.4	6.88	17.3	5.76	2.94	1474	97.3	8.10	697	10.6	4.88
C4-Phenanthrenes/Anthracenes	ug/kg	17.3	16.2	17.1	6.39	--	1194	107	6.67	758	11.0	--
Perylene	ug/kg	397	324	145	94.4 J	226	15.6	29.8	R	24.9	111 J	212.1 J
Phenanthrene, 2-methyl-	ug/kg	NA	NA	4.61 J	NA	NA	288 J	NA	NA	182 J	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	3.62	NA	NA	16.5	NA	NA	9.97	NA	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	2.47	NA	NA	274	NA	NA	158	NA	NA
1-Methylfluorene	ug/kg	NA	NA	4.01	NA	NA	152	NA	NA	61.6	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	3.17	NA	NA	187	NA	NA	123	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	3.19	NA	NA	184	NA	NA	82.6	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	3.60	NA	NA	369	NA	NA	234	NA	NA
2-Methylanthracene	ug/kg	NA	NA	3.11	NA	NA	16.8	NA	NA	9.05	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	1.11 J	NA	NA	35.4	NA	NA	25.8	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	1.15	NA	NA	100	NA	NA	76.4	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	4.08	NA	NA	208	NA	NA	131	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	4.79 J	NA	NA	446	NA	NA	287	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	3.79	NA	NA	386	NA	NA	228	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	2.44	NA	NA	12.2	NA	NA	--	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	NA	NA	2.19 J	NA	NA	27.8	NA	NA	17.3	NA	NA
Benzothiophene	ug/kg	NA	NA	0.789	NA	NA	3.31	NA	NA	2.06	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	44.3	NA	NA	17.9	NA	NA
C1-Decalins	ug/kg	NA	NA	36.4	NA	NA	14.7	NA	NA	13.8	NA	NA
C1-Dibenzothiophenes	ug/kg	7.52	4.82	9.11	2.18	0.443	914	79.1	4.84	570	6.23	0.858
C1-Naphthalenes	ug/kg	8.29	5.02	13.0	5.38	3.04	96.0	23.4	3.66	46.9	5.81	5.83
C1-Naphthobenzothiophenes	ug/kg	NA	NA	15.9	NA	NA	681	NA	NA	468	NA	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	51.0	NA	NA	36.9	NA	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	55.5	NA	NA	39.8	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	170	NA	NA	129	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	54.7	NA	NA	46.6	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	120	NA	NA	52.2	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	120	NA	NA	87.9	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	140	NA	NA	106	NA	NA
C29-Hopane	ug/kg	NA	NA	32.8	NA	NA	908	NA	NA	729	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	128	NA	NA	16.1	NA	NA
C2-Decalins	ug/kg	NA	NA	3.90	NA	NA	89.4	NA	NA	48.3	NA	NA
C2-Dibenzothiophenes	ug/kg	14.4	10.0	15.9	3.99	--	1803	147	8.74	1257	13.4	1.22
C2-Fluoranthenes/Pyrenes	ug/kg	30.6	21.2	18.4	5.59	--	476	50.4	3.06	339	5.23	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	32.6	NA	NA	1008	NA	NA	715	NA	NA
C30-Hopane	ug/kg	NA	NA	28.5	NA	NA	1223	NA	NA	1035	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	363	NA	NA	119	NA	NA
C3-Decalins	ug/kg	NA	NA	8.57	NA	NA	402	NA	NA	226	NA	NA
C3-Dibenzothiophenes	ug/kg	21.5	15.7	23.0	6.26	--	2264	173	10.8	1553	15.6	1.12
C3-Fluoranthenes/Pyrenes	ug/kg	19.9	15.4	14.0	4.42	--	475	40.0	2.25	347	3.30	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	29.7	NA	NA	783	NA	NA	565	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	564	NA	NA	249	NA	NA
C4-Decalins	ug/kg	NA	NA	12.7	NA	NA	595	NA	NA	380	NA	NA
C4-Dibenzothiophenes	ug/kg	25.0	17.0	18.8	5.85	--	1537	117	7.33	1191	11.9	0.651
C4-Fluoranthenes/Pyrenes	ug/kg	16.3	14.0	19.5	11.5	--	368	37.2	3.45	364	6.28	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	11.4	NA	NA	423	NA	NA	324	NA	NA
Carbazole	ug/kg	NA	NA	1.10	NA	NA	8.68	NA	NA	8.27	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	13.6 J	NA	NA	7.19	NA	NA	7.46	NA	NA
Dibenzofuran	ug/kg	NA	NA	6.84	NA	NA	24.7	NA	NA	12.6	NA	NA
Dibenzothiophene	ug/kg	5.38	3.03	3.87 J	1.30	0.519	263	23.3	1.58	144	1.86	0.828
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	10.7 J	NA	NA	267	NA	NA	108	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	5.68	NA	NA	256	NA	NA	183	NA	NA
Retene	ug/kg	NA	NA	4.23 J	NA	NA	132	NA	NA	101	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	933	NA	NA	6440	NA	NA	5575	NA	NA
i-C15	mg/kg	NA	NA	0.023	NA	NA	0.936	NA	NA	0.487	NA	NA
i-C16	mg/kg	NA	NA	0.042	NA	NA	1.732	NA	NA	0.863	NA	NA
i-C18	mg/kg	NA	NA	0.016	NA	NA	1.611	NA	NA	0.916	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.011 J	NA	NA	0.020 J	NA	NA	0.023	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.024	NA	NA	0.033	NA	NA	0.045	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.062	NA	NA	0.126	NA	NA	0.099	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.047	NA	NA	0.317	NA	NA	0.181	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.106	NA	NA	0.670	NA	NA	0.354	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.061	NA	NA	1.006	NA	NA	1.285	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.071	NA	NA	1.030	NA	NA	0.498	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.091	NA	NA	0.691	NA	NA	0.374	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	0.319	NA	NA	1.230	NA	NA	0.879	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.401	NA	NA	1.243	NA	NA	0.687	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.055	NA	NA	0.655	NA	NA	0.348	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	0.601	NA	NA	1.276	NA	NA	1.765	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.104	NA	NA	1.269	NA	NA	1.106	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	0.988	NA	NA	1.341	NA	NA	1.291	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.170	NA	NA	0.624	NA	NA	0.530	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	0.804	NA	NA	1.025	NA	NA	1.798	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	1.160	NA	NA	0.602	NA	NA	0.678	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	1.355 J	NA	NA	2.889	NA	NA	5.400	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.410	NA	NA	1.119	NA	NA	1.245	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	4.489	NA	NA	3.775	NA	NA	9.887	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.387	NA	NA	1.137	NA	NA	1.498	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	5.046	NA	NA	6.704	NA	NA	10.512	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.429	NA	NA	1.721	NA	NA	4.199	NA	NA
n-C33	mg/kg	NA	NA	6.953	NA	NA	15.660	NA	NA	24.357	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	NA	NA	0.596	NA	NA	0.760	NA	NA	3.041	NA	NA
n-C35	mg/kg	NA	NA	2.277 J	NA	NA	5.847	NA	NA	10.723	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.558	NA	NA	0.246	NA	NA	0.893	NA	NA
n-C37	mg/kg	NA	NA	1.045	NA	NA	1.194	NA	NA	6.603	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.165	NA	NA	0.115	NA	NA	0.638	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.239	NA	NA	0.279	NA	NA	0.294	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	0.040	NA	NA	0.173	NA	NA	0.155	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.106	NA	NA	2.246	NA	NA	1.591	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.083	NA	NA	2.177	NA	NA	1.412	NA	NA
Total Alkanes	mg/kg	NA	NA	29.3	NA	NA	63.5	NA	NA	96.7	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	415	NA	NA	2604	NA	NA	2542	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	178	NA	NA	354	NA	NA	448	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	237	NA	NA	2249	NA	NA	2093	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	10 J	--	--	3 J	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	22 J	--	--	--	--	--	8 J	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	120	110	130	22 J	12 J	41	15 J	--	46	--	--
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	3 J	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	4 J	--	--
Trichloroethene	ug/kg	11 J	15 J	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	12 J	--	--	3 J	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	3.79 J	6.55	2.07 J	5.26	5.64	8.12	5.27	5.37	6.31	4.75	11.5
Barium	mg/kg	69.4	132	86.3	98.4	99.6	175	102	110	140	78.6	202
Cadmium	mg/kg	--	--	0.168 J	--	--	--	--	--	--	--	--
Chromium	mg/kg	8.92	16.1	12.2 J	14.5 J	14.7 J	20.6 J	16.3 J	16.3 J	14.4 J	14.2 J	25.7 J
Lead	mg/kg	14.0	22.5	10.4	19.4	21.2	260	13.2	22.0	16.2	12.3	38.8
Mercury	mg/kg	--	0.0470 J	0.0533 J	0.0386 J	0.0383 J	0.0619 J	0.0233 J	0.0417 J	0.0264 J	0.0190 J	0.0979 J
Nickel	mg/kg	7.82	14.0	9.37	11.5	11.8	17.3	11.1	12.9	15.3	11.6	24.9
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	15.5	27.9	21.4	24.4	25.2	35.8	27.2	27.1	26.0	24.4	41.2
Other												
Black Carbon	%	0.24 J	NA	NA	--	0.17 J	NA	NA	0.16 J	NA	NA	0.28 J
Percent Moisture	%	53.2	40.7	23.1	35.8	38.7	40.3	21.2	24.9	23.9	23.4	59.3
Total Organic Carbon	%	4.64	NA	NA	3.36	3.3	NA	NA	3.17	NA	NA	6.41
Priority PAHs												
1-Methylnaphthalene	ug/kg	371	64.2	0.73	105	131	69.1	1.83	19.8	4.13	1.48	127
2-Methylnaphthalene	ug/kg	492	87.5	1.41	141	184	101	3.56	26.1	7.97	2.91	171
Acenaphthene	ug/kg	26.8	7.83	--	10.5	14.4	8.29	0.160	--	0.545	--	14.9 J
Acenaphthylene	ug/kg	30.7	5.49	--	9.09	12.0	4.18	0.111	4.18	0.244	0.093	14.6 J
Anthracene	ug/kg	38.0	6.97	4.25	11.6	16.7	--	0.158	3.72	0.178	0.140	11.4
Benzo(a)Anthracene	ug/kg	60.0	12.4	0.133 J	14.0 J	29.8 J	9.73	--	23.6	--	0.119 J	34.1
Benzo(a)Pyrene	ug/kg	90.9	16.0	--	24.5	26.0	11.2	--	17.4	--	--	28.9
Benzo(b)Fluoranthene	ug/kg	142	33.5	--	42.2	48.2	22.6	0.342	42.0	1.31	--	59.0
Benzo(g,h,i)Perylene	ug/kg	189	35.4	--	47.0	44.9	19.5	0.149	36.4	0.278	--	54.9
Benzo(j)+(k)Fluoranthene	ug/kg	41.4	10.8	--	13.7	17.3	6.95	0.106	13.2	0.273	--	14.6 J
Chrysene/Triphenylene	ug/kg	275	57.6	0.253	113	103	45.7	--	116	--	0.319	108
Dibenz(a,h)Anthracene	ug/kg	32.6	6.77	--	9.13	10.1	5.04	--	8.17	0.437	0.985	10.8
Fluoranthene	ug/kg	126 J	35.2 J	0.642	47.4	53.3	24.6	2.06	50.3	1.78	0.663	64.1
Fluorene	ug/kg	179	33.4	1.91	57.1	82.5	46.6	2.57	13.4	6.67	2.22	83.2
Indeno[1,2,3-cd]pyrene	ug/kg	50.8	13.4	--	14.0	18.3	8.13	--	14.5	0.488	--	23.2
Naphthalene	ug/kg	44.6	10.4	--	12.9	20.4	17.0	3.80	5.56	8.88	3.46	23.6 J
Phenanthrene	ug/kg	669	147	3.49	278	236	124	5.70	152	16.6	4.50	238
Pyrene	ug/kg	193	46.0	--	76.8	73.9 J	42.7	0.810	77.5 J	1.02	--	81.3 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	171	34.0	0.139 J	45.7	55.5	24.5	--	50.9	--	0.178	58.5
C1-Chrysenes	ug/kg	922	205	0.559	302	296	154	--	251	--	15.9	294
C1-Fluoranthenes/Pyrenes	ug/kg	1032	211	0.593	298	394	142	1.09	315	1.04	0.580	343
C1-Fluorenes	ug/kg	714	127	0.722	223	319	156	1.43	69.0	2.68	0.913	312
C1-Phenanthrenes/Anthracenes	ug/kg	2302	533	--	841	799	373	3.82	628	5.68	--	800
C2-Chrysenes	ug/kg	1336	245	0.568	451	375	185	--	346	--	2.59	445
C2-Fluorenes	ug/kg	2021	326	1.92	587	632	398	--	299	4.68	1.61	795
C2-Naphthalenes	ug/kg	2538	426	2.99	745	960	465	5.80	226	12.7	3.94	--
C2-Phenanthrenes/Anthracenes	ug/kg	4461	971	--	1304	1282	640	6.96	1105	6.77	--	1245
C3-Chrysenes	ug/kg	1095	209	0.429	306	307	138	--	224	--	0.811	303
C3-Fluorenes	ug/kg	2244	304	1.05	667	690	413	--	439	--	0.962	800
C3-Naphthalenes	ug/kg	4265	704	4.87	1124	1463	776	7.73	504	15.0	5.77	1541
C3-Phenanthrenes/Anthracenes	ug/kg	4853	1079	--	1411	1432	640	3.36	1454	2.62	--	1271
C4-Chrysenes	ug/kg	753	146	--	168	138	68.3	--	139	--	0.722	176
C4-Naphthalenes	ug/kg	4045	631	2.77	1140	1530	672	4.15	671	13.6	1.68	1393
C4-Phenanthrenes/Anthracenes	ug/kg	3212	841	--	1072	997	462	--	853	2.17	--	961
Perylene	ug/kg	133	371	1.23 J	37.1	34.8	64.8	7.39 J	59.7	192	7.01	114
Phenanthrene, 2-methyl-	ug/kg	728 J	NA	NA	286 J	335	NA	NA	247	NA	NA	339
1,1-Biphenyl	ug/kg	80.5	NA	NA	25.0	33.6	NA	NA	7.73	NA	NA	33.5
18a-Oleanane	ug/kg	--	NA	NA	--	--	NA	NA	--	NA	NA	--
1-Methyldibenzothiophene(1MDT)	ug/kg	638	NA	NA	251	270	NA	NA	216	NA	NA	270
1-Methylfluorene	ug/kg	489	NA	NA	186	216	NA	NA	44.3	NA	NA	212
1-Methylphenanthrene	ug/kg	519	NA	NA	196	219	NA	NA	181	NA	NA	225
2,3,5-Trimethylnaphthalene	ug/kg	496	NA	NA	169	219	NA	NA	78.8	NA	NA	208
2/3-Methyldibenzothiophene(2MDT)	ug/kg	982	NA	NA	388	361	NA	NA	317	NA	NA	351
2-Methylanthracene	ug/kg	68.6	NA	NA	30.1	27.2	NA	NA	13.3	NA	NA	28.6
2-Methylfluoranthene	ug/kg	68.6	NA	NA	27.7	25.3	NA	NA	25.1	NA	NA	24.1 J
3,6-Dimethylphenanthrene	ug/kg	217	NA	NA	93.0	124	NA	NA	96.8	NA	NA	127
3-Methylphenanthrene (3MP)	ug/kg	677 J	NA	NA	228	239	NA	NA	202	NA	NA	232
4-Methyldibenzothiophene(4MDT)	ug/kg	1236	NA	NA	473	445	NA	NA	417	NA	NA	434
9/4-Methylphenanthrene (9MP)	ug/kg	1012	NA	NA	358	423	NA	NA	335	NA	NA	420
Benzo(a)Fluoranthene	ug/kg	20.1	NA	NA	--	--	NA	NA	--	NA	NA	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	90.9	NA	NA	33.1	37.4	NA	NA	12.1	NA	NA	39.5
Benzothiophene	ug/kg	14.1	NA	NA	1.81 J	3.06 J	NA	NA	1.04	NA	NA	3.26
C1-Benzo(b)thiophenes	ug/kg	128	NA	NA	25.2	35.8	NA	NA	9.24	NA	NA	43.5
C1-Decalins	ug/kg	--	NA	NA	5.62 J	10.8 J	NA	NA	2.58	NA	NA	7.16
C1-Dibenzothiophenes	ug/kg	2554	626	1.03	933	886	443	1.41	783	1.83	0.547	869
C1-Naphthalenes	ug/kg	549	96.5	1.38	159	207	110	3.51	30.1	7.87	2.82	196
C1-Naphthobenzothiophenes	ug/kg	1615	NA	NA	581	648	NA	NA	691	NA	NA	659
C20-TAS	ug/kg	96.9	NA	NA	--	--	NA	NA	--	NA	NA	42.8
C21-TAS	ug/kg	130	NA	NA	--	--	NA	NA	--	NA	NA	60.5
C26(20R)/C27(20S)-TAS	ug/kg	458	NA	NA	--	--	NA	NA	--	NA	NA	166
C26(20S)-TAS	ug/kg	153	NA	NA	--	--	NA	NA	--	NA	NA	50.4
C27(20R)-TAS	ug/kg	354	NA	NA	--	--	NA	NA	--	NA	NA	106
C28(20R)-TAS	ug/kg	365	NA	NA	--	--	NA	NA	--	NA	NA	128
C28(20S)-TAS	ug/kg	455	NA	NA	--	--	NA	NA	--	NA	NA	138
C29-Hopane	ug/kg	2538	NA	NA	745	966	NA	NA	810	NA	NA	910
C2-Benzo(b)thiophenes	ug/kg	519	NA	NA	138	188	NA	NA	44.6	NA	NA	169
C2-Decalins	ug/kg	--	NA	NA	39.0	45.3	NA	NA	11.2	NA	NA	32.0
C2-Dibenzothiophenes	ug/kg	5099	1152	1.79	1693	1649	700	2.39	1491	2.27	0.752	1598
C2-Fluoranthenes/Pyrenes	ug/kg	1704	419	0.612	463	462	--	--	421	--	0.436 J	530
C2-Naphthobenzothiophenes	ug/kg	2633	NA	NA	842	916	NA	NA	1002	NA	NA	1052
C30-Hopane	ug/kg	3607	NA	NA	1022	1177	NA	NA	1098	NA	NA	1135
C3-Benzo(b)thiophenes	ug/kg	1257	NA	NA	370	494	NA	NA	110	NA	NA	450
C3-Decalins	ug/kg	--	NA	NA	246	253	NA	NA	60.8	NA	NA	216
C3-Dibenzothiophenes	ug/kg	6541	1393	1.89	1985	1674	906	3.39	1144	2.54	0.631	1924
C3-Fluoranthenes/Pyrenes	ug/kg	1924	313	0.557	451	502	--	--	417	--	0.388 J	526
C3-Naphthobenzothiophenes	ug/kg	2202	NA	NA	734	719	NA	NA	681	NA	NA	871
C4-Benzo(b)thiophenes	ug/kg	1732	NA	NA	505	704	NA	NA	253	NA	NA	647
C4-Decalins	ug/kg	--	NA	NA	450	382	NA	NA	172	NA	NA	366
C4-Dibenzothiophenes	ug/kg	4873	1067	1.84	1376	1362	569	2.77	1156	1.55	0.502	1349
C4-Fluoranthenes/Pyrenes	ug/kg	2082	368	0.369 J	409	367	--	--	368	--	0.356 J	499
C4-Naphthobenzothiophenes	ug/kg	977	NA	NA	361	261	NA	NA	339	NA	NA	442
Carbazole	ug/kg	--	NA	NA	11.4 J	--	NA	NA	--	NA	NA	10.8
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	NA	3.99	5.13	NA	NA	3.10	NA	NA	4.15
Dibenzofuran	ug/kg	72.7	NA	NA	22.5	32.2	NA	NA	11.4	NA	NA	33.3
Dibenzothiophene	ug/kg	562	165	0.435	272	260	140	0.608	170	1.34	0.427	291
Naphthalene, 2,6-dimethyl-	ug/kg	1042	NA	NA	325	409	NA	NA	93.5	NA	NA	369
Naphthobenzothiophene	ug/kg	499	NA	NA	210	272	NA	NA	257	NA	NA	277
Retene	ug/kg	241	NA	NA	116	97.3	NA	NA	103	NA	NA	94.2
TPH												
EOM (Extracted Organic Material)	mg/kg	15754	NA	NA	5469	7876	NA	NA	4196	NA	NA	7418
i-C15	mg/kg	4.689	NA	NA	1.209	1.089	NA	NA	0.118	NA	NA	0.909
i-C16	mg/kg	5.886	NA	NA	1.888	1.594	NA	NA	0.173	NA	NA	1.547
i-C18	mg/kg	4.463	NA	NA	1.795	1.572	NA	NA	0.270	NA	NA	1.755
n-C10 (n-Decane)	mg/kg	0.203	NA	NA	0.023	0.033	NA	NA	--	NA	NA	0.023
n-C11 (n-Undecane)	mg/kg	1.276	NA	NA	0.031	0.046	NA	NA	0.013 J	NA	NA	0.061
n-C12 (n-Dodecane)	mg/kg	3.489	NA	NA	0.044 J	0.152 J	NA	NA	0.016 J	NA	NA	0.179
n-C13 (n-Tridecane)	mg/kg	4.658	NA	NA	0.153 J	0.631 J	NA	NA	0.019 J	NA	NA	0.503
n-C14 (n-Tetradecane)	mg/kg	5.589	NA	NA	0.393 J	1.178 J	NA	NA	0.071	NA	NA	1.101
n-C15 (Pentadecane)	mg/kg	6.625	NA	NA	0.743 J	1.877 J	NA	NA	0.133	NA	NA	1.900 J
n-C16 (n-Hexadecane)	mg/kg	6.172	NA	NA	0.845 J	1.790 J	NA	NA	0.126	NA	NA	2.024 J
n-C17 (Heptadecane)	mg/kg	4.189	NA	NA	0.540 J	1.248 J	NA	NA	0.058	NA	NA	1.610 J
n-C18 (Octadecane)	mg/kg	4.405	NA	NA	0.896	1.468	NA	NA	0.578	NA	NA	2.181 J
n-C19 (Nonadecane)	mg/kg	4.856	NA	NA	1.043	1.558	NA	NA	0.342	NA	NA	2.356 J
n-C20 (Eicosane)	mg/kg	3.643	NA	NA	0.650 J	1.165 J	NA	NA	0.208	NA	NA	1.502 J
n-C21 (Heneicosane)	mg/kg	3.799	NA	NA	1.147	1.353	NA	NA	0.421	NA	NA	3.198
n-C22 (Docosane)	mg/kg	3.225	NA	NA	1.279	1.022	NA	NA	0.278	NA	NA	1.480 J
n-C23 (Tricosane)	mg/kg	3.717	NA	NA	1.344	1.492	NA	NA	0.773	NA	NA	3.770
n-C24 (Tetracosane)	mg/kg	2.773	NA	NA	0.501	0.774	NA	NA	0.237	NA	NA	1.176
n-C25 (Pentacosane)	mg/kg	2.784	NA	NA	1.021	1.210	NA	NA	0.810	NA	NA	2.950
n-C26 (Hexacosane)	mg/kg	1.978	NA	NA	0.510	0.614	NA	NA	0.252	NA	NA	0.791
n-C27 (Heptacosane)	mg/kg	3.533	NA	NA	2.635	2.450	NA	NA	2.832	NA	NA	4.027
n-C28 (Octacosane)	mg/kg	1.610	NA	NA	0.816	0.815	NA	NA	0.732	NA	NA	1.206
n-C29 (Nonacosane)	mg/kg	7.644	NA	NA	3.125 J	5.476 J	NA	NA	6.666	NA	NA	7.555
n-C30 (n-Triacontane)	mg/kg	1.367	NA	NA	0.946 J	0.394 J	NA	NA	0.797	NA	NA	1.038
n-C31 (Hentriacontane)	mg/kg	8.269	NA	NA	5.499	5.221	NA	NA	5.552	NA	NA	9.252
n-C32 (Dotriacontane)	mg/kg	1.810	NA	NA	1.963 J	0.628 J	NA	NA	0.943	NA	NA	1.300
n-C33	mg/kg	12.828	NA	NA	6.753	4.878	NA	NA	9.624	NA	NA	7.724

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	1.073	NA	NA	1.160 J	0.458 J	NA	NA	0.824	NA	NA	0.756
n-C35	mg/kg	6.429	NA	NA	5.161 J	1.979 J	NA	NA	5.724	NA	NA	3.293
n-C36 (Hexatriacontane)	mg/kg	0.541	NA	NA	0.612	0.385	NA	NA	0.335	NA	NA	0.426
n-C37	mg/kg	1.322	NA	NA	1.194	1.137	NA	NA	1.159	NA	NA	1.788
n-C38 (Octatriacontane)	mg/kg	0.212	NA	NA	0.557 J	0.119 J	NA	NA	0.122	NA	NA	0.279
n-C39 (Nonatriacontane)	mg/kg	0.489	NA	NA	0.282	0.240	NA	NA	0.193	NA	NA	0.539
n-C40 (Tetracontane)	mg/kg	0.300	NA	NA	0.156 J	--	NA	NA	--	NA	NA	0.075
n-C9 (Nonane)	mg/kg	--	NA	NA	--	--	NA	NA	--	NA	NA	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	6.873	NA	NA	2.265	2.449	NA	NA	0.802	NA	NA	2.827
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	6.707	NA	NA	2.217	2.143	NA	NA	0.652	NA	NA	2.508 J
Total Alkanes	mg/kg	139	NA	NA	51.4	50.6	NA	NA	41.9	NA	NA	75.6
Total Petroleum Hydrocarbons	mg/kg	6717	NA	NA	2385	2723	NA	NA	1807	NA	NA	2714
Total Resolveable Hydrocarbons	mg/kg	712	NA	NA	292	375	NA	NA	325	NA	NA	590
Unresolved Complex Mixture	mg/kg	6005	NA	NA	2093	2348	NA	NA	1482	NA	NA	2124
VOCs												
1,2,4-Trimethylbenzene	ug/kg	170	100	--	27	16	--	--	--	--	--	93 J
1,3,5-Trimethylbenzene	ug/kg	100	64	--	16	10	--	--	--	--	--	66 J
2-Butanone (MEK)	ug/kg	29	25	--	--	--	--	--	--	--	--	25 J
2-Phenylbutane	ug/kg	32	19	--	5 J	3 J	--	--	--	--	--	15 J
Acetone	ug/kg	110	120	15 J	26 J	26 J	11 J	--	15 J	9 J	--	100 J
Benzene	ug/kg	2 J	1 J	--	1 J	--	--	--	--	--	--	3 J
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	17	12	--	25	15	--	--	--	--	--	16 J
Isopropylbenzene (Cumene)	ug/kg	14	9 J	--	3 J	--	--	--	--	--	--	8 J
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	44	25	--	6 J	4 J	--	--	--	--	--	17 J
n-Propylbenzene	ug/kg	33	20	--	6 J	4 J	--	--	--	--	--	18 J
p-Isopropyltoluene (Cymene)	ug/kg	41	24	--	6 J	4 J	--	--	--	--	--	26 J
Toluene	ug/kg	5 J	3 J	--	4 J	4 J	3 J	--	--	--	--	120 J
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	110	61	--	23	13	--	--	--	--	--	81 J

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Chemical	**Units**											
Metals												
Arsenic	mg/kg	8.38	4.23	9.40	13.0	4.31	4.60	5.90	2.67	4.41	13.9	7.47
Barium	mg/kg	241	96.9	214	186	134	132	164	69.8	61.8	236	259
Cadmium	mg/kg	--	--	--	--	--	0.345 J	0.370 J	0.207 J	0.263 J	0.804 J	0.485 J
Chromium	mg/kg	25.8 J	14.6 J	28.2 J	27.5 J	18.9 J	20.7 J	23.1 J	11.4 J	13.4 J	33.7 J	30.4 J
Lead	mg/kg	30.6	13.4	36.0	45.7	17.2	20.8	25.3	10.2	14.0	46.1	36.2
Mercury	mg/kg	0.0911 J	0.0311 J	0.0598 J	0.0693 J	0.0442 J	0.0304 J	0.0525 J	0.0276 J	0.0210 J	0.112 J	0.0861 J
Nickel	mg/kg	19.4	8.13	24.8	24.9	13.0	15.7	18.8	8.19	8.67	32.5	20.9
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	45.4	27.1	42.8	42.6	32.6	33.5	40.0	20.1	25.0	52.7	61.2
Other												
Black Carbon	%	NA	NA	0.29 J	NA	NA	0.22 J	0.25 J	NA	NA	0.42 J	NA
Percent Moisture	%	53.0	24.0	58.3	48.9	27.4	36.9	56.1	20.8	20.7	68.4	64.3
Total Organic Carbon	%	NA	NA	8.23	NA	NA	4.8	5.3	NA	NA	13.03	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	7.87	2.05	91.2	16.8	3.21	8.51	13.3	0.391 J	--	75.8	4.34
2-Methylnaphthalene	ug/kg	12.7	4.00	129	29.4	6.26	13.6	20.0	0.799 J	--	102	7.50
Acenaphthene	ug/kg	1.36	0.35	8.96	2.04	0.636	2.06	1.88	0.165	--	11.5 J	1.21
Acenaphthylene	ug/kg	0.96	0.12	12.7	2.83	0.252	3.16	3.15	0.106	--	13.8 J	1.44
Anthracene	ug/kg	1.48	--	12.2	4.56	17.6	3.89	3.89	0.214	--	19.0	2.37
Benzo(a)Anthracene	ug/kg	2.71	--	18.0	6.52	0.397	3.93	3.14	0.228	0.079 J	13.8 J	3.63
Benzo(a)Pyrene	ug/kg	1.59	--	29.0	4.69	--	5.05	3.91	0.120	--	20.1	2.62
Benzo(b)Fluoranthene	ug/kg	7.55	0.37	83.2	32.0	1.46	23.7	22.5	0.747	--	64.5	14.0
Benzo(g,h,i)Perylene	ug/kg	3.14	0.22	34.2	17.0	0.388	13.1	13.4	--	--	54.6	3.74
Benzo(j)+(k)Fluoranthene	ug/kg	1.64	0.06 J	26.7	9.09	0.293	7.04 J	4.18 J	--	--	28.0	3.78
Chrysene/Triphenylene	ug/kg	9.21	--	68.0	26.7	1.14	11.7	11.2	0.494	0.121	35.9	10.4
Dibenz(a,h)Anthracene	ug/kg	1.26	--	8.27	3.43	0.169	3.22	2.84	--	--	8.44	2.60
Fluoranthene	ug/kg	7.17	0.93	59.2	19.0	2.56	12.6	12.5	1.14	0.631	47.6	8.81
Fluorene	ug/kg	7.65	4.07	41.6	12.0	6.27	6.87	8.71	1.55	1.81	40.8 J	6.46
Indeno[1,2,3-cd]pyrene	ug/kg	3.09	--	25.3	13.5	0.645	12.2	11.6	--	--	36.9	4.91
Naphthalene	ug/kg	13.1	4.75	28.0	19.9	7.04	5.52	8.59	--	--	26.7	6.00
Phenanthrene	ug/kg	21.9	--	114	31.7	16.7	15.6	17.5	3.19	4.70	88.1	12.9
Pyrene	ug/kg	5.24	0.47 J	72.2	15.7	1.82	8.87	9.74	--	--	41.5	6.17
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	3.34	--	46.4	18.2	--	12.9	12.0	0.282	--	39.8	5.45
C1-Chrysenes	ug/kg	33.1	--	176	105	--	32.9	28.9	0.181 J	0.094 J	111	35.6
C1-Fluoranthenes/Pyrenes	ug/kg	8.62	0.37 J	161	25.6	1.18	11.6	13.0	0.533	0.161 J	70.7	7.09
C1-Fluorenes	ug/kg	4.17	1.64	133	13.2	2.49	13.1	13.0	0.644	0.704	84.0	3.60
C1-Phenanthrenes/Anthracenes	ug/kg	20.5	--	323	38.2	5.59	22.9	22.7	--	--	141	13.9
C2-Chrysenes	ug/kg	15.8	--	215	63.6	--	22.8	19.2	0.663	0.283	86.2	17.2
C2-Fluorenes	ug/kg	14.5	--	381	48.1	4.68	22.4	28.7	1.03	2.044	156	11.4
C2-Naphthalenes	ug/kg	20.5	6.25	468	55.0	9.04	46.3	53.8	1.48	--	367	13.7
C2-Phenanthrenes/Anthracenes	ug/kg	26.7	--	556	65.7	--	32.9	33.9	--	--	208	14.6
C3-Chrysenes	ug/kg	12.2	--	161	56.3	--	17.8	13.9	0.499	0.850	55.0	7.63
C3-Fluorenes	ug/kg	21.4	--	444	32.5	--	31.2	31.8	0.675	0.913	199	9.34
C3-Naphthalenes	ug/kg	26.0	9.10	728	57.0	9.46	56.5	59.3	3.94	--	357	13.4
C3-Phenanthrenes/Anthracenes	ug/kg	18.0	--	737	74.1	--	27.4	29.9	--	--	250	14.2
C4-Chrysenes	ug/kg	8.00	--	121	31.2	--	8.56	9.39	--	--	55.5	5.87
C4-Naphthalenes	ug/kg	10.5	3.22	684	37.5	9.01	40.0	36.2	2.07	1.30	284	4.63
C4-Phenanthrenes/Anthracenes	ug/kg	8.80	--	497	61.8	--	17.2	21.2	--	--	170	9.63
Perylene	ug/kg	--	238	36.5	83.0 J	141	140	157	61.7	5.27	103	378
Phenanthrene, 2-methyl-	ug/kg	NA	NA	101 J	NA	NA	9.41	8.63	NA	NA	57.6	NA
1,1-Biphenyl	ug/kg	NA	NA	23.5	NA	NA	3.82	4.48	NA	NA	21.1 J	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	128	NA	NA	6.29	6.20	NA	NA	51.1	NA
1-Methylfluorene	ug/kg	NA	NA	91.4	NA	NA	7.56	7.48	NA	NA	55.0	NA
1-Methylphenanthrene	ug/kg	NA	NA	99.0	NA	NA	5.03	6.26	NA	NA	39.8	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	97.1	NA	NA	6.53	6.49	NA	NA	46.7	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	148	NA	NA	9.32	8.18	NA	NA	66.4	NA
2-Methylanthracene	ug/kg	NA	NA	8.15	NA	NA	4.64	5.19	NA	NA	8.23	NA
2-Methylfluoranthene	ug/kg	NA	NA	15.5	NA	NA	1.49	1.41	NA	NA	5.89	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	69.1	NA	NA	2.71 J	1.48 J	NA	NA	19.9 J	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	92.0	NA	NA	6.48	6.78	NA	NA	44.1	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	215	NA	NA	10.9	10.5	NA	NA	79.6	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	122	NA	NA	9.53	7.99	NA	NA	66.1	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	9.81	NA	NA	4.80	4.33	NA	NA	21.0	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	NA	NA	15.6	NA	NA	1.87	1.77	NA	NA	9.89	NA
Benzothiophene	ug/kg	NA	NA	3.11	NA	NA	0.54	0.634	NA	NA	2.94	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	35.5	NA	NA	2.55 J	--	NA	NA	48.2	NA
C1-Decalins	ug/kg	NA	NA	11.8	NA	NA	--	--	NA	NA	11.9	NA
C1-Dibenzothiophenes	ug/kg	7.70	--	413	31.6	1.15	20.8	19.6	0.259	0.139	155	4.91
C1-Naphthalenes	ug/kg	13.3	3.99	143	30.0	6.17	14.9	22.3	0.766 J	--	119	7.62
C1-Naphthobenzothiophenes	ug/kg	NA	NA	241	NA	NA	29.8	26.4	NA	NA	86.4	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C29-Hopane	ug/kg	NA	NA	541	NA	NA	--	--	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	94.6	NA	NA	9.89 J	--	NA	NA	80.0	NA
C2-Decalins	ug/kg	NA	NA	38.6	NA	NA	--	--	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	15.6	0.67	672	60.1	1.30	34.0	31.3	0.458	0.181 J	240	9.40
C2-Fluoranthenes/Pyrenes	ug/kg	11.5	--	222	41.6	--	18.1	16.9	0.343 J	0.216 J	125	10.7
C2-Naphthobenzothiophenes	ug/kg	NA	NA	415	NA	NA	47.5	32.7	NA	NA	155	NA
C30-Hopane	ug/kg	NA	NA	636	NA	NA	--	--	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	212	NA	NA	16.4 J	--	NA	NA	129	NA
C3-Decalins	ug/kg	NA	NA	228	NA	NA	--	--	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	14.1	0.72	1010	97	1.28	39.7	38.5	0.480	0.185 J	260	13.9
C3-Fluoranthenes/Pyrenes	ug/kg	10.7	--	165	42.0	--	17.1 J	7.83 J	0.319 J	0.087 J	84.9	8.49
C3-Naphthobenzothiophenes	ug/kg	NA	NA	352	NA	NA	37.6	26.3	NA	NA	136	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	290	NA	NA	15.5 J	--	NA	NA	125	NA
C4-Decalins	ug/kg	NA	NA	337	NA	NA	--	--	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	10.3	--	623	91.2	--	30.5	26.4	0.370	0.130 J	201	14.8
C4-Fluoranthenes/Pyrenes	ug/kg	7.37	--	215	58.1	--	19.7	21.4	0.203 J	--	92.0	9.83
C4-Naphthobenzothiophenes	ug/kg	NA	NA	187	NA	NA	17.3 J	7.49 J	NA	NA	50.2	NA
Carbazole	ug/kg	NA	NA	13.8	NA	NA	2.90	3.40	NA	NA	11.6 J	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	12.1	NA	NA	--	--	NA	NA	17.1 J	NA
Dibenzofuran	ug/kg	NA	NA	22.2	NA	NA	4.24	5.73	NA	NA	23.2 J	NA
Dibenzothiophene	ug/kg	3.05	--	127	14.1	1.09	10.1	10.0	0.276	0.165	71.3	3.08
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	206	NA	NA	18.4	21.2	NA	NA	141	NA
Naphthobenzothiophene	ug/kg	NA	NA	105	NA	NA	8.23	6.81	NA	NA	37.6	NA
Retene	ug/kg	NA	NA	110	NA	NA	2.55	2.89	NA	NA	17.3 J	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	4111	NA	NA	1045	1128	NA	NA	5645	NA
i-C15	mg/kg	NA	NA	0.485	NA	NA	--	0.008 J	NA	NA	0.088	NA
i-C16	mg/kg	NA	NA	0.702	NA	NA	--	0.053 J	NA	NA	0.303	NA
i-C18	mg/kg	NA	NA	0.811	NA	NA	--	0.014	NA	NA	0.345	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.028	NA	NA	0.007 J	0.008 J	NA	NA	0.038	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.051	NA	NA	0.023	0.019	NA	NA	0.257	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.074	NA	NA	0.017 J	0.026	NA	NA	0.126	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.094	NA	NA	0.013 J	0.018 J	NA	NA	0.127	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.209	NA	NA	0.026	0.040	NA	NA	0.250	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.303	NA	NA	0.035	0.110	NA	NA	0.275	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.292	NA	NA	0.030	0.054	NA	NA	0.385	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.338	NA	NA	0.060	0.068	NA	NA	0.620	NA
n-C18 (Octadecane)	mg/kg	NA	NA	1.004	NA	NA	0.282	0.369	NA	NA	1.963	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.700	NA	NA	0.180	0.276	NA	NA	1.459 J	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.360	NA	NA	0.037 J	0.075 J	NA	NA	0.308	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	2.433	NA	NA	0.498	0.304	NA	NA	5.955	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.683	NA	NA	0.091	0.079	NA	NA	0.676	NA
n-C23 (Tricosane)	mg/kg	NA	NA	1.615	NA	NA	0.530	0.438	NA	NA	6.898	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.457	NA	NA	0.155	0.135	NA	NA	1.127	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	2.267	NA	NA	0.915	0.832	NA	NA	7.331	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.615	NA	NA	0.222	0.185	NA	NA	0.931	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	1.988	NA	NA	1.435	1.112	NA	NA	7.887	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.764	NA	NA	0.397	0.307	NA	NA	1.424	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	5.602	NA	NA	4.753	3.023	NA	NA	13.425	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.791	NA	NA	0.370	0.450	NA	NA	1.132	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	8.375	NA	NA	3.388	2.504	NA	NA	14.529	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.699	NA	NA	0.153 J	0.284 J	NA	NA	0.637	NA
n-C33	mg/kg	NA	NA	18.682	NA	NA	1.507	1.765	NA	NA	28.571	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	NA	NA	1.852	NA	NA	0.259	0.117	NA	NA	1.381 J	NA
n-C35	mg/kg	NA	NA	10.475	NA	NA	1.076	1.057	NA	NA	18.048	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.392	NA	NA	0.025 J	0.166 J	NA	NA	0.431	NA
n-C37	mg/kg	NA	NA	1.085	NA	NA	0.142	0.157	NA	NA	1.274	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.322	NA	NA	0.071	0.102	NA	NA	0.348	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.354	NA	NA	0.070	0.081	NA	NA	0.727	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	0.128	NA	NA	0.053	0.081	NA	NA	0.189	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	1.248	NA	NA	0.083	0.077	NA	NA	0.889	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	1.038	NA	NA	0.033	0.039	NA	NA	0.499	NA
Total Alkanes	mg/kg	NA	NA	67.3	NA	NA	16.9	14.4	NA	NA	120.9	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	1480	NA	NA	300	360	NA	NA	1983	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	461	NA	NA	166	161	NA	NA	974	NA
Unresolved Complex Mixture	mg/kg	NA	NA	1019	NA	NA	134	200	NA	NA	1008	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	5 J	7 J	--	4 J	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	4 J	5 J	--	3 J	--	--	--	6 J	--
2-Butanone (MEK)	ug/kg	15 J	--	20 J	--	--	8 J	--	--	--	40 J	32 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	75	--	110	39 J	--	41	27 J	--	--	200 J	200
Benzene	ug/kg	1 J	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	16	--	--	--	--	--	--	6 J	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	5 J	--	16	8 J	--	5 J	--	--	--	22 J	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
Chemical	**Units**									
Metals										
Arsenic	mg/kg	3.95	13.9	5.27	4.68	3.85	3.10	6.42	4.34 J	2.90
Barium	mg/kg	178	197	135	114	83.7	75.9	193	197	83.1
Cadmium	mg/kg	0.331 J	--	--	--	0.218 J	0.205 J	0.527 J	0.397 J	0.214 J
Chromium	mg/kg	23.9 J	27.1	17.8	14.1	14.5 J	17.5 J	26.0 J	22.4 J	12.0 J
Lead	mg/kg	23.0	38.1	17.7	14.0	13.0	11.8	36.9	26.1	11.3
Mercury	mg/kg	0.0418 J	0.0679 J	0.0401 J	0.0503 J	0.0533 J	0.0311 J	0.0709 J	0.0680 J	0.0386 J
Nickel	mg/kg	13.0	25.5	12.3	10.0	9.86	12.3	21.1	19.5	9.65
Selenium	mg/kg	1.33 J	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	49.2	42.3	29.7	25.4	25.6	28.7	41.9	38.2	20.5
Other										
Black Carbon	%	NA	0.35 J	NA	NA	NA	NA	0.23 J	NA	NA
Percent Moisture	%	33.2	65.3	27.0	25.1	23.3	26.5	58.0	55.7	22.1
Total Organic Carbon	%	NA	8.54	NA	NA	NA	NA	5.18	NA	NA
Priority PAHs										
1-Methylnaphthalene	ug/kg	0.758	65.7	3.84	2.23	NA	NA	5.41	2.78	0.692
2-Methylnaphthalene	ug/kg	1.45	90.8	7.78	4.00	NA	NA	10.4	5.49	1.45
Acenaphthene	ug/kg	0.451	7.31	1.07	0.12	NA	NA	1.48	1.01	0.275
Acenaphthylene	ug/kg	0.235	14.4	0.798	0.61	NA	NA	2.35	0.939	--
Anthracene	ug/kg	0.351	19.2	0.959	0.583	NA	NA	3.05	1.40	--
Benzo(a)Anthracene	ug/kg	0.652	19.2	1.48	0.569	NA	NA	3.44	2.49	0.136 J
Benzo(a)Pyrene	ug/kg	0.453	24.8	1.94	--	NA	NA	3.97	1.49	--
Benzo(b)Fluoranthene	ug/kg	2.52	90.3	7.65	--	NA	NA	20.0	11.3	--
Benzo(g,h,i)Perylene	ug/kg	--	81.1	5.33	--	NA	NA	13.4	2.30	--
Benzo(j)+(k)Fluoranthene	ug/kg	0.448	23.0	1.44	--	NA	NA	4.04	1.53	--
Chrysene/Triphenylene	ug/kg	2.03	61.8	3.71	1.07	NA	NA	14.3	8.94	0.119
Dibenz(a,h)Anthracene	ug/kg	--	12.5	2.33	--	NA	NA	3.32	1.46	--
Fluoranthene	ug/kg	1.99	57.8 J	6.38 J	3.32 J	NA	NA	12.3	8.46	0.787
Fluorene	ug/kg	2.72	31.6	8.93	7.41	NA	NA	8.54	8.06	3.36
Indeno[1,2,3-cd]pyrene	ug/kg	0.621	45.3	3.35	--	NA	NA	11.0	3.14	--
Naphthalene	ug/kg	2.06	20.6	7.53	4.13	NA	NA	9.76	6.41	1.79
Phenanthrene	ug/kg	5.16	79.7	18.0	14.0	NA	NA	19.2	17.4	6.56
Pyrene	ug/kg	1.52	58.2	3.75	1.41	NA	NA	9.10	4.63	--
Forensic PAHs										
Benzo(e)Pyrene	ug/kg	0.847	57.3	3.39	--	NA	NA	12.3	3.33	0.160 J
C1-Chrysenes	ug/kg	11.5	141	--	--	NA	NA	72.1	2.73	--
C1-Fluoranthenes/Pyrenes	ug/kg	2.92	113	5.79	2.67	NA	NA	17.1	5.26	--
C1-Fluorenes	ug/kg	1.22	76.2	4.89	3.43	NA	NA	7.58	4.56	--
C1-Phenanthrenes/Anthracenes	ug/kg	--	199	10.8	7.18	NA	NA	19.1	11.8	--
C2-Chrysenes	ug/kg	2.23	153	--	--	NA	NA	46.2	6.79	--
C2-Fluorenes	ug/kg	1.73	222	11.6	--	NA	NA	27.1	7.44	--
C2-Naphthalenes	ug/kg	2.49	290	15.1	11.7	NA	NA	20.5	9.66	2.97
C2-Phenanthrenes/Anthracenes	ug/kg	--	376	15.0	8.25	NA	NA	32.4	8.19	--
C3-Chrysenes	ug/kg	1.56	136	--	--	NA	NA	37.1	2.81	--
C3-Fluorenes	ug/kg	0.921	283	--	--	NA	NA	17.9	4.09	--
C3-Naphthalenes	ug/kg	6.07	398	20.5	21.1	NA	NA	24.3	12.3	8.53
C3-Phenanthrenes/Anthracenes	ug/kg	--	425	13.4	5.31	NA	NA	37.8	4.14	--
C4-Chrysenes	ug/kg	1.12	99.9	--	--	NA	NA	15.4	2.22	--
C4-Naphthalenes	ug/kg	1.03	345	25.9	54.1	NA	NA	16.6	10.3	4.29
C4-Phenanthrenes/Anthracenes	ug/kg	--	352	13.8	5.15	NA	NA	34.7	--	--
Perylene	ug/kg	348	112	157	52.8	NA	NA	378	310	15.8
Phenanthrene, 2-methyl-	ug/kg	NA	61.2 J	NA	NA	NA	NA	8.41	NA	NA
1,1-Biphenyl	ug/kg	NA	16.0	NA	NA	NA	NA	6.46	NA	NA
18a-Oleanane	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	67.1	NA	NA	NA	NA	2.92	NA	NA
1-Methylfluorene	ug/kg	NA	56.6	NA	NA	NA	NA	3.42	NA	NA
1-Methylphenanthrene	ug/kg	NA	57.0	NA	NA	NA	NA	4.03	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	49.2	NA	NA	NA	NA	2.43	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	81.5	NA	NA	NA	NA	5.70	NA	NA
2-Methylanthracene	ug/kg	NA	12.7	NA	NA	NA	NA	5.38	NA	NA
2-Methylfluoranthene	ug/kg	NA	10.6	NA	NA	NA	NA	1.92	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	26.0	NA	NA	NA	NA	2.60	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	58.5 J	NA	NA	NA	NA	5.74	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	113	NA	NA	NA	NA	5.98	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	70.4	NA	NA	NA	NA	5.80	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	15.9	NA	NA	NA	NA	--	NA	NA

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
Chemical	**Units**									
Benzo(b)fluorene	ug/kg	NA	12.4	NA	NA	NA	NA	2.16	NA	NA
Benzothiophene	ug/kg	NA	2.14	NA	NA	NA	NA	1.19	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	47.6	NA	NA	NA	NA	--	NA	NA
C1-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	0.536	234	4.31	1.29	NA	NA	11.5	2.30	0.231
C1-Naphthalenes	ug/kg	1.42	99.6	7.45	3.99	NA	NA	10.7	5.33	1.38
C1-Naphthobenzothiophenes	ug/kg	NA	187	NA	NA	NA	NA	43.4	NA	NA
C20-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	53.2	NA	NA	NA	NA	--	NA	NA
C2-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.410	399	7.05	3.20	NA	NA	25.2	3.13	0.315
C2-Fluoranthenes/Pyrenes	ug/kg	1.25	210	--	--	NA	NA	30.8	4.39	--
C2-Naphthobenzothiophenes	ug/kg	NA	326	NA	NA	NA	NA	87.9	NA	NA
C30-Hopane	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	136	NA	NA	NA	NA	--	NA	NA
C3-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.330	512	12.6	5.16	NA	NA	51.8	3.29	0.179 J
C3-Fluoranthenes/Pyrenes	ug/kg	1.05	161	--	--	NA	NA	28.9	2.70	--
C3-Naphthobenzothiophenes	ug/kg	NA	281	NA	NA	NA	NA	95.3	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	148	NA	NA	NA	NA	--	NA	NA
C4-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	0.264	418	10.6	5.20	NA	NA	46.8	3.57	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	224	--	--	NA	NA	42.1	1.20	--
C4-Naphthobenzothiophenes	ug/kg	NA	136	NA	NA	NA	NA	29.7	NA	NA
Carbazole	ug/kg	NA	11.7	NA	NA	NA	NA	2.82	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	15.9	NA	NA	NA	NA	5.57	NA	NA
Dibenzofuran	ug/kg	NA	16.8	NA	NA	NA	NA	6.20	NA	NA
Dibenzothiophene	ug/kg	0.627	68.8	2.46	2.14	NA	NA	5.92	1.98	0.313
Naphthalene, 2,6-dimethyl-	ug/kg	NA	120	NA	NA	NA	NA	8.75	NA	NA
Naphthobenzothiophene	ug/kg	NA	62.7	NA	NA	NA	NA	12.7	NA	NA
Retene	ug/kg	NA	28.5	NA	NA	NA	NA	1.75	NA	NA
TPH										
EOM (Extracted Organic Material)	mg/kg	NA	4661	NA	NA	NA	NA	1403	NA	NA
i-C15	mg/kg	NA	0.223	NA	NA	NA	NA	0.012 J	NA	NA
i-C16	mg/kg	NA	0.346	NA	NA	NA	NA	0.055	NA	NA
i-C18	mg/kg	NA	0.264	NA	NA	NA	NA	0.019	NA	NA
n-C10 (n-Decane)	mg/kg	NA	0.013 J	NA	NA	NA	NA	0.008 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	0.042	NA	NA	NA	NA	0.012 J	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.108	NA	NA	NA	NA	0.029	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.128	NA	NA	NA	NA	0.020 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.192	NA	NA	NA	NA	0.042	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.533	NA	NA	NA	NA	0.054	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.245	NA	NA	NA	NA	0.053	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.661	NA	NA	NA	NA	0.067	NA	NA
n-C18 (Octadecane)	mg/kg	NA	1.078	NA	NA	NA	NA	1.544	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.905	NA	NA	NA	NA	0.368	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.308	NA	NA	NA	NA	0.054	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	3.676	NA	NA	NA	NA	0.812	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.496	NA	NA	NA	NA	0.128	NA	NA
n-C23 (Tricosane)	mg/kg	NA	3.413	NA	NA	NA	NA	0.805	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.551	NA	NA	NA	NA	0.178	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	2.847	NA	NA	NA	NA	0.792	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	0.386	NA	NA	NA	NA	0.213	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	3.715	NA	NA	NA	NA	1.303	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.893	NA	NA	NA	NA	0.446	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	6.984	NA	NA	NA	NA	4.621	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	1.124	NA	NA	NA	NA	0.448	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	10.266	NA	NA	NA	NA	6.039	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	2.354	NA	NA	NA	NA	0.295	NA	NA
n-C33	mg/kg	NA	23.020	NA	NA	NA	NA	2.348	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
Chemical	**Units**									
n-C34 (Tetratriacontane)	mg/kg	NA	0.695	NA	NA	NA	NA	0.417	NA	NA
n-C35	mg/kg	NA	11.573	NA	NA	NA	NA	2.038	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	0.425	NA	NA	NA	NA	0.260	NA	NA
n-C37	mg/kg	NA	0.972	NA	NA	NA	NA	0.255	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	0.314	NA	NA	NA	NA	0.085	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	0.633	NA	NA	NA	NA	0.232	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	0.034	NA	NA	NA	NA	0.026	NA	NA
n-C9 (Nonane)	mg/kg	NA	--	NA	NA	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	0.992	NA	NA	NA	NA	0.086	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	0.573	NA	NA	NA	NA	0.040	NA	NA
Total Alkanes	mg/kg	NA	81.0	NA	NA	NA	NA	24.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	1612	NA	NA	NA	NA	479	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	576	NA	NA	NA	NA	197	NA	NA
Unresolved Complex Mixture	mg/kg	NA	1037	NA	NA	NA	NA	282	NA	NA
VOCs										
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	13 J	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	33	--	--	--	--	12 J	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	12 J	200	13 J	11 J	--	--	67	18 J	--
Benzene	ug/kg	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	6 J	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	3 J	4 J	2 J
Xylene (Total)	ug/kg	--	20	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

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

Notes:

% = percent

-- = Compound was not detected

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

E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)

ft = feet

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

mg/kg = milligrams per kilogram

NA = not analyzed

PAH = polycyclic aromatic hydrocarbons

R = The sample results are rejected

TPH = total petroleum hydrocarbon

ug/kg = micrograms per kilogram

VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

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

	Location	SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Chemical	**Units**											
Metals												
Arsenic	mg/kg	2.73 J	2.07 J	1.59 J	5.78	2.43 J	1.65 J	7.62	2.37 J	1.81 J	7.42	3.66
Barium	mg/kg	158	105	75.5	187	122	86.9	259	140	96.2	142 J	83.6 J
Cadmium	mg/kg	--	--	--	0.245 J	--	--	--	--	--	0.404 J	--
Chromium	mg/kg	21.4 J	18.5 J	14.1 J	28.4 J	20.0 J	12.6 J	41.4 J	21.9 J	16.6 J	21.1 J	12.3 J
Lead	mg/kg	24.5	12.9	11.2	40.8	17.3	9.94	46.7	18.8	12.7	27.8 J	14.8 J
Mercury	mg/kg	0.0598 J	0.0133 J	0.0461 J	0.0759 J	0.0799 J	0.0215 J	0.0903 J	0.0451 J	0.0353 J	0.0593 J	0.0265 J
Nickel	mg/kg	17.3	9.69	7.41	24.0	11.6	6.74	31.0	14.1	8.83	19.4 J	9.76 J
Selenium	mg/kg	--	--	--	--	--	--	2.89 J	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	36.4	31.3	25.1	46.7	33.5	23.8	67.2	35.3	27.6	34.7 J	20.1 J
Other												
Black Carbon	%	--	NA	NA	0.230 J	NA	NA	0.220 J	NA	NA	0.270 J	0.240 J
Percent Moisture	%	37.1	21.9	20.7	58.7	26.4	19.5	70.4	29.4	22.6	64.4	37.1
Total Organic Carbon	%	2.20	NA	NA	5.91	NA	NA	3.03	NA	NA	5.48	4.58
Priority PAHs												
1-Methylnaphthalene	ug/kg	6.02	0.262 J	--	3.05	0.905	--	3.21	1.59	0.333 J	3.30	2.52
2-Methylnaphthalene	ug/kg	9.90	0.649 J	--	6.81	2.03	0.475 J	7.55	3.59	0.713 J	7.53	5.88
Acenaphthene	ug/kg	1.71	0.127	--	1.57	0.291	0.082 J	1.59	0.929	0.190	2.63	1.85
Acenaphthylene	ug/kg	3.36	0.085	--	6.47	0.212	0.059	4.29	0.798	0.110	8.28	5.59
Anthracene	ug/kg	5.24	0.111 J	--	9.73	0.366	--	7.77	1.69	0.214	15.3	9.94
Benzo(a)Anthracene	ug/kg	9.56	0.182 J	--	17.0	0.522	--	13.3	1.85	0.226	18.7	13.8
Benzo(a)Pyrene	ug/kg	7.39	--	--	14.4	--	--	11.7	1.92	--	16.3	13.2
Benzo(b)Fluoranthene	ug/kg	22.6	0.391	--	43.9	1.55	--	31.3	7.60	0.463	60.7	43.7
Benzo(g,h,i)Perylene	ug/kg	9.21	0.215	--	20.4	0.758	0.099	13.2	2.89	0.26	24.0	18.7
Benzo(j)+(k)Fluoranthene	ug/kg	5.44	0.075 J	--	14.2	0.258	--	8.18	1.76	0.088 J	20.4	15.2
Chrysene/Triphenylene	ug/kg	16.4	0.308	--	28.3	1.37	--	25.2	4.94	0.289	31.8	23.2
Dibenz(a,h)Anthracene	ug/kg	--	--	--	9.14	0.378	--	5.39	10.1	--	10.1 J	--
Fluoranthene	ug/kg	21.5	1.56	1.15	39.6	2.77	1.09	25.1	6.11	1.41	44.1	30.3
Fluorene	ug/kg	12.5	2.12	1.12	10.4	3.87	1.78	13.7	7.67	--	12.5	9.29
Indeno[1,2,3-cd]pyrene	ug/kg	7.41	--	--	16.5	0.621	--	10.8	2.48	--	21.9	15.2
Naphthalene	ug/kg	8.98	--	--	7.38	2.87	--	7.49	4.04	--	8.65	5.87
Phenanthrene	ug/kg	28.6	6.54	3.53	21.8	11.1	5.20	38.6	20.5	6.79	23.1	19.2
Pyrene	ug/kg	18.0	0.914	0.465	33.6	1.78	0.496	25.3	5.52	1.04	43.0	29.5
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	11.2	--	--	24.3	--	--	27.3	3.48	--	30.8	21.4
C1-Chrysenes	ug/kg	3.92	--	--	24.7	--	--	73.5	--	--	6.56	5.58
C1-Fluoranthenes/Pyrenes	ug/kg	17.5	0.538	0.258 J	27.7	1.96	--	29.5	4.98	0.475	37.9	28.7
C1-Fluorenes	ug/kg	6.97	0.903	0.565	6.05	1.62	--	6.64	3.03	0.831	7.19	5.66
C1-Phenanthrenes/Anthracenes	ug/kg	15.8	3.14	--	15.2	4.46	--	16.6	7.16	3.17	17.8	14.6
C2-Chrysenes	ug/kg	7.33	--	--	9.36	--	--	110	--	--	10.2	11.2
C2-Fluorenes	ug/kg	20.1	1.19	--	23.8	--	--	22.6	6.98	--	17.4	12.9
C2-Naphthalenes	ug/kg	22.4	1.19	--	11.8	3.14	1.01	13.4	6.08	1.10	14.9	11.7
C2-Phenanthrenes/Anthracenes	ug/kg	21.2	--	--	23.4	--	--	40.8	8.38	--	25.8	19.0
C3-Chrysenes	ug/kg	9.14	--	--	14.5	--	--	86.6	--	--	19.4	16.6
C3-Fluorenes	ug/kg	16.3	--	--	20.7	--	--	25.4	7.09	--	18.5	20.3
C3-Naphthalenes	ug/kg	32.0	1.32	--	17.1	3.17	--	29.8	19.7	2.78	14.7	11.4
C3-Phenanthrenes/Anthracenes	ug/kg	16.2	--	--	19.4	--	--	63.9	5.07	--	30.2	20.4
C4-Chrysenes	ug/kg	6.69	--	--	9.04	--	--	49.2	--	--	10.3	12.2
C4-Naphthalenes	ug/kg	18.1	2.41	--	21.0	2.77	--	11.8	5.61	2.10	18.1	12.2
C4-Phenanthrenes/Anthracenes	ug/kg	20.1	--	--	17.6	--	--	52.8	4.50	--	22.5	17.9
Perylene	ug/kg	655 EJ	148	75.7	917 EJ	746 EJ	126	935 EJ	968 EJ	461 EJ	1018 EJ	736 EJ
Phenanthrene, 2-methyl-	ug/kg	6.15	NA	NA	4.82	NA	NA	5.63	NA	NA	5.90	5.11
1,1-Biphenyl	ug/kg	4.94	NA	NA	3.66	NA	NA	3.84	NA	NA	4.06	3.77
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	0.80	NA	NA	1.21	NA	NA	0.97	NA	NA	1.14	0.74
1-Methylfluorene	ug/kg	3.52	NA	NA	3.10	NA	NA	3.39	NA	NA	3.63	2.93
1-Methylphenanthrene	ug/kg	4.03	NA	NA	2.99	NA	NA	3.42	NA	NA	3.20	2.84
2,3,5-Trimethylnaphthalene	ug/kg	3.83	NA	NA	2.16	NA	NA	1.63	NA	NA	2.39	1.60
2/3-Methyldibenzothiophene(2MDT)	ug/kg	2.55	NA	NA	2.83	NA	NA	2.25	NA	NA	3.14	2.45
2-Methylanthracene	ug/kg	4.69	NA	NA	5.55	NA	NA	5.33	NA	NA	6.30	5.31
2-Methylfluoranthene	ug/kg	2.54	NA	NA	4.37	NA	NA	3.66	NA	NA	6.01	4.12
3,6-Dimethylphenanthrene	ug/kg	1.41	NA	NA	1.71	NA	NA	2.55	NA	NA	2.82	2.01
3-Methylphenanthrene (3MP)	ug/kg	5.86	NA	NA	5.92	NA	NA	6.31	NA	NA	6.84	5.41
4-Methyldibenzothiophene(4MDT)	ug/kg	2.77	NA	NA	3.45	NA	NA	2.92	NA	NA	3.86	3.06
9/4-Methylphenanthrene (9MP)	ug/kg	3.59	NA	NA	4.14	NA	NA	4.93	NA	NA	5.17	3.92
Benzo(a)Fluoranthene	ug/kg	3.63	NA	NA	12.9	NA	NA	5.02	NA	NA	--	10.0 J

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

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

	Location	SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Chemical	**Units**											
Benzo(b)fluorene	ug/kg	4.57	NA	NA	8.30	NA	NA	6.76	NA	NA	11.5	8.24
Benzothiophene	ug/kg	1.19	NA	NA	0.76	NA	NA	0.493	NA	NA	0.817 J	0.495 J
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C1-Decalins	ug/kg	2.29	NA	NA	1.01	NA	NA	1.33	NA	NA	--	--
C1-Dibenzothiophenes	ug/kg	5.11	0.147	--	6.25	0.443	--	5.13	1.43	--	6.80	5.22
C1-Naphthalenes	ug/kg	9.73	0.561 J	--	6.06	1.80	0.421 J	6.62	3.18	0.642 J	6.66	5.16
C1-Naphthobenzothiophenes	ug/kg	14.0	NA	NA	22.5	NA	NA	63.4	NA	NA	27.1	20.2
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	4.38	NA	NA	--	--
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	5.73	NA	NA	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	15.1	NA	NA	--	--
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	10.5	NA	NA	--	--
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	25.6	NA	NA	--	--
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	44.8	NA	NA	--	--
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	45.5	NA	NA	--	--
C29-Hopane	ug/kg	28.4	NA	NA	78.8	NA	NA	185	NA	NA	56.8	73.0
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C2-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C2-Dibenzothiophenes	ug/kg	--	--	--	12.5	--	--	17.5	2.20	--	16.1	10.6
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	--	37.5	--	--	48.6	7.92	--	44.1	35.2
C2-Naphthobenzothiophenes	ug/kg	27.4	NA	NA	36.7	NA	NA	120	NA	NA	47.4	39.3
C30-Hopane	ug/kg	44.9	NA	NA	98.2	NA	NA	295	NA	NA	131	101
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C3-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C3-Dibenzothiophenes	ug/kg	--	--	--	15.3	--	--	37.0	3.67	--	18.1	13.9
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	20.2	--	--	48.2	5.71	--	24.6	15.5
C3-Naphthobenzothiophenes	ug/kg	27.2	NA	NA	31.6	NA	NA	129	NA	NA	44.1	35.9
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C4-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C4-Dibenzothiophenes	ug/kg	--	--	--	14.3	--	--	40.6	1.73	--	22.0	14.6
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	32.7	--	--	74.5	10.2	--	49.2	36.0
C4-Naphthobenzothiophenes	ug/kg	10.8	NA	NA	12.9	NA	NA	67.8	NA	NA	14.9	13.4
Carbazole	ug/kg	2.69	NA	NA	3.79	NA	NA	2.83	NA	NA	5.60	4.18
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	4.63	NA	NA	5.09	NA	NA	4.96	NA	NA	--	--
Dibenzofuran	ug/kg	6.97	NA	NA	5.20	NA	NA	7.72	NA	NA	6.17	4.68
Dibenzothiophene	ug/kg	4.23	0.188	0.087 J	4.83	0.732	--	4.19	1.76	0.287	5.94	4.73
Naphthalene, 2,6-dimethyl-	ug/kg	9.56	NA	NA	6.09	NA	NA	7.09	NA	NA	6.79	4.90
Naphthobenzothiophene	ug/kg	11.0	NA	NA	14.9	NA	NA	22.2	NA	NA	15.2	11.3
Retene	ug/kg	26.9	NA	NA	8.20	NA	NA	4.32	NA	NA	12.7	7.68
TPH												
EOM (Extracted Organic Material)	mg/kg	991	NA	NA	2033	NA	NA	2543	NA	NA	2544	1555
i-C15	mg/kg	0.014 J	NA	NA	0.020	NA	NA	0.016 J	NA	NA	0.031	0.028
i-C16	mg/kg	0.015	NA	NA	0.044	NA	NA	0.063	NA	NA	0.070	0.094
i-C18	mg/kg	0.026	NA	NA	0.024	NA	NA	0.031	NA	NA	0.052	0.043
n-C10 (n-Decane)	mg/kg	0.010 J	NA	NA	0.009 J	NA	NA	0.013 J	NA	NA	0.013 J	0.011 J
n-C11 (n-Undecane)	mg/kg	0.015 J	NA	NA	0.016 J	NA	NA	0.023	NA	NA	0.019	0.020
n-C12 (n-Dodecane)	mg/kg	0.048	NA	NA	0.027	NA	NA	0.072	NA	NA	0.034	0.035
n-C13 (n-Tridecane)	mg/kg	0.023 J	NA	NA	0.021 J	NA	NA	0.045 J	NA	NA	0.025 J	0.024 J
n-C14 (n-Tetradecane)	mg/kg	0.045	NA	NA	0.029	NA	NA	0.079	NA	NA	0.046	0.046
n-C15 (Pentadecane)	mg/kg	0.204	NA	NA	0.664	NA	NA	0.048	NA	NA	0.543	0.536
n-C16 (n-Hexadecane)	mg/kg	0.089	NA	NA	0.127	NA	NA	0.137	NA	NA	0.084	0.089
n-C17 (Heptadecane)	mg/kg	0.138	NA	NA	0.237	NA	NA	0.253	NA	NA	0.959	0.647
n-C18 (Octadecane)	mg/kg	0.244	NA	NA	0.469	NA	NA	0.485	NA	NA	0.621	0.560
n-C19 (Nonadecane)	mg/kg	0.351	NA	NA	0.643	NA	NA	0.696	NA	NA	1.12	0.905
n-C20 (Eicosane)	mg/kg	0.125	NA	NA	0.262	NA	NA	0.160	NA	NA	0.403	0.353
n-C21 (Heneicosane)	mg/kg	0.505	NA	NA	1.69	NA	NA	1.23	NA	NA	2.18	1.95
n-C22 (Docosane)	mg/kg	0.172	NA	NA	0.277	NA	NA	0.176	NA	NA	0.203	0.323
n-C23 (Tricosane)	mg/kg	0.467	NA	NA	1.17	NA	NA	0.840	NA	NA	1.70	1.45
n-C24 (Tetracosane)	mg/kg	0.204	NA	NA	0.353	NA	NA	0.269	NA	NA	0.474	0.407
n-C25 (Pentacosane)	mg/kg	0.456	NA	NA	0.954	NA	NA	0.790	NA	NA	1.56	1.26
n-C26 (Hexacosane)	mg/kg	0.157	NA	NA	0.262	NA	NA	0.173	NA	NA	0.481	0.310
n-C27 (Heptacosane)	mg/kg	1.16	NA	NA	1.88	NA	NA	1.35	NA	NA	3.05	2.51
n-C28 (Octacosane)	mg/kg	0.442	NA	NA	0.861	NA	NA	0.456	NA	NA	1.11	0.965
n-C29 (Nonacosane)	mg/kg	3.49	NA	NA	7.70	NA	NA	2.70	NA	NA	2.56 J	7.18 J
n-C30 (n-Triacontane)	mg/kg	0.321	NA	NA	0.751	NA	NA	0.234	NA	NA	1.00	0.962
n-C31 (Hentriacontane)	mg/kg	3.54	NA	NA	9.18	NA	NA	2.75	NA	NA	10.7	9.99
n-C32 (Dotriacontane)	mg/kg	0.626	NA	NA	0.837	NA	NA	0.154	NA	NA	0.761	0.983
n-C33	mg/kg	5.05	NA	NA	13.8	NA	NA	4.70	NA	NA	15.8	11.4

Appendix K - Analytical Data Tables - Detected Analytes Only
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Downstream Areas Data Assessment Report
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Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
Sample Date		7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Chemical	**Units**											
n-C34 (Tetratriacontane)	mg/kg	0.448	NA	NA	1.21	NA	NA	0.447	NA	NA	0.558 J	1.33 J
n-C35	mg/kg	3.41	NA	NA	10.5	NA	NA	3.86	NA	NA	8.67	7.25
n-C36 (Hexatriacontane)	mg/kg	0.187	NA	NA	0.511	NA	NA	0.291	NA	NA	0.605	0.964
n-C37	mg/kg	0.972	NA	NA	1.94	NA	NA	0.746	NA	NA	2.05	1.95
n-C38 (Octatriacontane)	mg/kg	0.083	NA	NA	0.162	NA	NA	0.151	NA	NA	0.236	0.206
n-C39 (Nonatriacontane)	mg/kg	0.085	NA	NA	0.160	NA	NA	0.151	NA	NA	0.238	0.215
n-C40 (Tetracontane)	mg/kg	0.092	NA	NA	0.087	NA	NA	--	NA	NA	--	--
n-C9 (Nonane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.076	NA	NA	0.129	NA	NA	0.079	NA	NA	0.230	0.169
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.055	NA	NA	0.055	NA	NA	0.062	NA	NA	0.071	0.052
Total Alkanes	mg/kg	23.3	NA	NA	57.1	NA	NA	23.7	NA	NA	58.3	55.2
Total Petroleum Hydrocarbons	mg/kg	303	NA	NA	558	NA	NA	738	NA	NA	798	503
Total Resolveable Hydrocarbons	mg/kg	161	NA	NA	319	NA	NA	147	NA	NA	354 J	291 J
Unresolved Complex Mixture	mg/kg	142	NA	NA	239	NA	NA	591	NA	NA	444	213
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	6 J	--	--	14 J	--	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	34	21 J	--	78	19 J	9 J	100	14 J	10 J	69	40 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

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

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)
Chemical	**Units**								
Metals									
Arsenic	mg/kg	3.09	2.45 J	8.37	6.51	2.70 J	9.13	7.33	2.51 J
Barium	mg/kg	144 J	126 J	154 J	203 J	159 J	223 J	142 J	163 J
Cadmium	mg/kg	--	--	0.273 J	--	--	0.514 J	0.196 J	--
Chromium	mg/kg	23.6 J	24.4 J	24.0 J	29.8 J	30.2 J	36.9 J	20.4 J	26.7 J
Lead	mg/kg	17.8 J	15.6 J	30.4 J	34.4 J	17.3 J	47.2 J	22.3 J	19.3 J
Mercury	mg/kg	0.0436 J	0.0367 J	0.0621 J	0.0772 J	0.0381 J	0.0868 J	0.0540 J	0.0407 J
Nickel	mg/kg	14.8 J	12.8 J	19.9 J	22.5 J	14.8 J	30.8 J	18.5 J	16.6 J
Selenium	mg/kg	--	--	--	--	--	3.24 J	1.22 J	--
Silver	mg/kg	--	--	--	--	--	--	--	--
Vanadium	mg/kg	36.8 J	38.6 J	38.3 J	52.9 J	48.2 J	59.3 J	37.7 J	44.1 J
Other									
Black Carbon	%	NA	NA	0.240 J	NA	NA	0.310 J	NA	NA
Percent Moisture	%	33.3	23.1	68.8	52.8	28.9	73.2	35.3	28.0
Total Organic Carbon	%	NA	NA	4.70	NA	NA	5.67	NA	NA
Priority PAHs									
1-Methylnaphthalene	ug/kg	--	0.817	3.98	4.60	--	4.18	2.99	1.26
2-Methylnaphthalene	ug/kg	3.21	1.56	9.53	10.6	3.02	9.55	6.44	2.73
Acenaphthene	ug/kg	0.600	0.446	2.62	3.63	0.462	2.03	1.17	0.310
Acenaphthylene	ug/kg	0.313	0.284	16.0	6.15	0.302	14.3	1.59	0.270
Anthracene	ug/kg	0.953	0.881	26.8	11.4	0.626	24.7	3.06	0.648
Benzo(a)Anthracene	ug/kg	0.832	2.01	38.0	14.7	0.469	30.6	5.01	1.61
Benzo(a)Pyrene	ug/kg	--	1.17	30.6	14.3	--	31.1	3.33	0.734
Benzo(b)Fluoranthene	ug/kg	3.41	1.97	103	51.8	3.26	104	17.5	3.49
Benzo(g,h,i)Perylene	ug/kg	--	0.942	37.2	20.6	2.60	33.4	4.70	0.895
Benzo(j)+(k)Fluoranthene	ug/kg	0.752	0.920	36.2	15.4	0.774	36.8	3.12	0.857
Chrysene/Triphenylene	ug/kg	3.55	2.44	49.4	30.2	2.96	45.3	12.6	3.43
Dibenz(a,h)Anthracene	ug/kg	--	0.347	13.0	7.90	0.875	12.2	--	0.957
Fluoranthene	ug/kg	4.80	6.37	74.9	33.3	3.45	66.2	13.7	4.89
Fluorene	ug/kg	7.91	5.47	13.8	16.2	6.04	16.2	9.53	4.22
Indeno[1,2,3-cd]pyrene	ug/kg	--	0.853	39.4	16.6	--	35.7	5.26	0.827
Naphthalene	ug/kg	3.57	2.07	10.2	10.5	3.84	9.30	8.94	3.71
Phenanthrene	ug/kg	26.4	18.8	30.4	34.8	17.3	42.0	24.6	13.5
Pyrene	ug/kg	2.81	4.59	70.0	37.7	2.01	67.0	10.7	3.13
Forensic PAHs									
Benzo(e)Pyrene	ug/kg	--	1.24	50.3	28.3	--	55.6	6.64	1.14
C1-Chrysenes	ug/kg	--	--	20.8	26.5	--	41.7	17.3	--
C1-Fluoranthenes/Pyrenes	ug/kg	2.38	3.13	49.9	37.7	2.47	48.7	12.4	2.83
C1-Fluorenes	ug/kg	3.25	--	8.13	8.15	2.31	8.54	4.86	1.91
C1-Phenanthrenes/Anthracenes	ug/kg	7.88	6.70	22.1	22.6	5.79	25.8	10.7	6.09
C2-Chrysenes	ug/kg	--	--	17.1	31.9	--	20.7	4.43	--
C2-Fluorenes	ug/kg	4.76	--	28.4	23.2	--	31.8	9.67	2.58
C2-Naphthalenes	ug/kg	7.72	--	15.5	17.8	4.96	16.2	9.59	3.90
C2-Phenanthrenes/Anthracenes	ug/kg	5.82	7.51	29.7	31.0	--	35.3	12.6	7.96
C3-Chrysenes	ug/kg	--	--	17.2	31.5	--	25.5	8.29	--
C3-Fluorenes	ug/kg	5.64	--	21.7	29.3	--	31.2	9.63	6.29
C3-Naphthalenes	ug/kg	29.5	--	15.1	16.3	3.74	16.1	7.95	2.79
C3-Phenanthrenes/Anthracenes	ug/kg	1.61	4.38	29.6	39.3	--	31.9	7.01	2.78
C4-Chrysenes	ug/kg	--	--	--	--	--	15.0	4.25	--
C4-Naphthalenes	ug/kg	17.1	--	11.8	13.1	6.33	13.1	5.21	2.61
C4-Phenanthrenes/Anthracenes	ug/kg	1.53	3.94	20.2	33.7	--	32.8	8.89	3.69
Perylene	ug/kg	826 EJ	190	755 EJ	907 EJ	787 EJ	835 EJ	539	230
Phenanthrene, 2-methyl-	ug/kg	NA	NA	6.99	NA	NA	9.22	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	4.00	NA	NA	3.73	NA	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	1.37	NA	NA	1.16	NA	NA
1-Methylfluorene	ug/kg	NA	NA	3.62	NA	NA	4.54	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	4.01	NA	NA	4.52	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	2.90	NA	NA	2.93	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	3.20	NA	NA	3.40	NA	NA
2-Methylanthracene	ug/kg	NA	NA	8.84	NA	NA	7.67	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	9.34	NA	NA	9.09	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	2.70	NA	NA	3.22	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	8.25	NA	NA	9.98	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	3.84	NA	NA	3.98	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	6.07	NA	NA	8.50	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	--	NA	NA	10.7	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

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

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)
Chemical	**Units**								
Benzo(b)fluorene	ug/kg	NA	NA	11.8	NA	NA	13.9	NA	NA
Benzothiophene	ug/kg	NA	NA	0.652	NA	NA	0.55	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C1-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	1.46	--	7.03	8.54	0.609	7.13	2.78	0.923
C1-Naphthalenes	ug/kg	2.02	1.45	8.31	9.35	1.90	8.44	5.79	2.45
C1-Naphthobenzothiophenes	ug/kg	NA	NA	24.1	NA	NA	28.3	NA	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	NA	154	NA	NA	164	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C2-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.935	1.31	14.8	--	0.665	15.1	4.21	1.10
C2-Fluoranthenes/Pyrenes	ug/kg	--	4.01	46.0	56.4	--	55.1	14.9	3.18
C2-Naphthobenzothiophenes	ug/kg	NA	NA	37.6	NA	NA	48.5	NA	NA
C30-Hopane	ug/kg	NA	NA	158	NA	NA	197	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C3-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.497	1.54	15.1	--	0.407	16.2	5.77	1.13
C3-Fluoranthenes/Pyrenes	ug/kg	--	2.02	21.8	34.0	--	23.5	14.1	1.76
C3-Naphthobenzothiophenes	ug/kg	NA	NA	38.7	NA	NA	48.3	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C4-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	0.690	0.936	17.9	--	0.453	19.5	4.97	0.620
C4-Fluoranthenes/Pyrenes	ug/kg	--	3.83	23.5	--	--	29.0	12.2	4.03
C4-Naphthobenzothiophenes	ug/kg	NA	NA	15.7	NA	NA	19.9	NA	NA
Carbazole	ug/kg	NA	NA	8.66	NA	NA	7.99	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	--	NA	NA	--	NA	NA
Dibenzofuran	ug/kg	NA	NA	7.38	NA	NA	8.19	NA	NA
Dibenzothiophene	ug/kg	2.16	--	5.47	6.58	1.10	6.48	3.43	1.42
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	8.52	NA	NA	8.79	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	17.2	NA	NA	16.6	NA	NA
Retene	ug/kg	NA	NA	7.92	NA	NA	8.81	NA	NA
TPH									
EOM (Extracted Organic Material)	mg/kg	NA	NA	2387	NA	NA	2238	NA	NA
i-C15	mg/kg	NA	NA	0.026	NA	NA	0.029	NA	NA
i-C16	mg/kg	NA	NA	0.109	NA	NA	0.102	NA	NA
i-C18	mg/kg	NA	NA	0.031	NA	NA	0.041	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.020 J	NA	NA	0.020 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.034	NA	NA	0.026	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.055	NA	NA	0.053	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.049	NA	NA	0.040 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.069	NA	NA	0.097	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.369	NA	NA	0.403	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.133	NA	NA	0.141	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	2.74	NA	NA	1.13	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	1.01	NA	NA	1.01	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	1.42	NA	NA	1.88	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.602	NA	NA	0.755	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	3.32	NA	NA	2.63	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.475	NA	NA	0.494	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	3.20	NA	NA	3.13	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.723	NA	NA	0.749	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	3.29	NA	NA	3.01	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.867	NA	NA	0.854	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	5.89	NA	NA	5.12	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.610	NA	NA	1.42	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	6.57	NA	NA	6.75	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.687	NA	NA	0.878	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	7.45	NA	NA	7.25	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	NA	1.38	NA	NA	1.46	NA	NA
n-C33	mg/kg	NA	NA	10.4	NA	NA	10.1	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

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

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)
Chemical	**Units**								
n-C34 (Tetratriacontane)	mg/kg	NA	NA	1.36	NA	NA	1.83	NA	NA
n-C35	mg/kg	NA	NA	9.55	NA	NA	10.8	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.619	NA	NA	0.561	NA	NA
n-C37	mg/kg	NA	NA	1.49	NA	NA	1.35	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.236	NA	NA	0.366	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.315	NA	NA	0.315	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	--	NA	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.451	NA	NA	0.277	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.119	NA	NA	0.098	NA	NA
Total Alkanes	mg/kg	NA	NA	65.7	NA	NA	65.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	705	NA	NA	673	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	364	NA	NA	331	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	340	NA	NA	342	NA	NA
VOCs									
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	11 J	6 J	--	7 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--
Acetone	ug/kg	27 J	13 J	100	62	28	140	36	20 J
Benzene	ug/kg	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	1 J	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

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

Notes:

% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
R = The sample results are rejected

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Re-Sampling Data

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

	Location	SED-DA-033R	SED-DA-033R	SED-DA-033R	SED-DA-033R	SED-DA-034R	SED-DA-034R	SED-DA-034R	SED-DA-035R	SED-DA-035R	SED-DA-035R	SED-DA-036R	SED-DA-036R	SED-DA-036R
	Depths (ft)	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-033R(0.0-0.5)	SED-DA-DUP-10-112013	SED-DA-033R(0.5-1.0)	SED-DA-033R(1.0-1.5)	SED-DA-034R(0.0-0.5)	SED-DA-034R(0.5-1.0)	SED-DA-034R(1.0-1.5)	SED-DA-035R(0.0-0.5)	SED-DA-035R(0.5-1.0)	SED-DA-035R(1.0-1.5)	SED-DA-036R(0.0-0.5)	SED-DA-036R(0.5-1.0)	SED-DA-036R(1.0-1.5)
Chemical	**Units**													
Metals														
Arsenic	mg/kg	2.97 J	2.29 J	1.30 J	2.08 J	5.92	1.40 J	1.71 J	5.38 J	2.60 J	1.37 J	4.70 J	1.53 J	1.93 J
Barium	mg/kg	124	85	72.1	67.1	149	90.3	73.1	233	123	90.5	137	86.5	82.8
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	17.8 J	11.9 J	11.2 J	11.0 J	18.9 J	14.1 J	11.9 J	28.6 J	17.1 J	13.9 J	15.7 J	14.2 J	12.7 J
Lead	mg/kg	23.9	16.3	11.4	12.2	27.3	13.6	12.5	**43.6**	21.8	12.8	24.4	12.6	12
Mercury	mg/kg	0.0669 J	0.0406 J	0.0205 J	0.0293 J	0.0593 J	0.0373 J	0.0208 J	0.0843 J	0.0640 J	0.0459 J	0.0375 J	0.0224 J	0.0359 J
Nickel	mg/kg	14.4	9.79	6.99	6.91	**17**	9.12	6.79	**25.4**	13.7	8.44	15	9.08	7.98
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	29.9	20.1	19	20.5	33	25.4	22.7	52.2	28.8	24.2	26.3	23.9	21.8
Other														
Black Carbon	%	0.21 J	0.2 J	NA	NA	0.3 J	NA	NA	0.29 J	NA	NA	0.29 J	NA	NA
Percent Moisture	%	56.4	32.4	21.8	19.3	61.1	23.5	22.7	65.8	32.8	22.8	59.6	23.8	21.8
Total Organic Carbon	%	1.98	1.91	NA	NA	3.34	NA	NA	2.59	NA	NA	5.51	NA	NA
Priority PAHs														
1-Methylnaphthalene	ug/kg	3.47	5.6	0.984	1.94	9.82	2.13	0.957	9.06	6.52	3.68	9.64	1.24	1.88
2-Methylnaphthalene	ug/kg	7	11.5	1.7	3.4	18.8	3.67	1.51	18.3	12	6.08	19.7	2.89	3.3
Acenaphthene	ug/kg	0.744	0.911	0.178	--	1.08	0.528	0.116	1.6	1.15	0.256	1.61	--	--
Acenaphthylene	ug/kg	2.18	2.92	0.113	--	7.41	0.504	0.072	7.78	1.49	0.147	7.94	--	--
Anthracene	ug/kg	3.09	4.21	--	0.062 J	10.4	0.593	0.092 J	11.4	2.26	0.143	11.6	0.102 J	0.096 J
Benzo(a)Anthracene	ug/kg	4.89	6.88	--	--	16.1	0.989	--	17.2	3.05	0.222	18.8	--	--
Benzo(a)Pyrene	ug/kg	3.03	4.59	--	--	11	0.496	--	11.5	2.15	0.088 J	13.4	--	--
Benzo(b)Fluoranthene	ug/kg	14.5	22.7	--	--	52	5.1	--	52.5	17.1	0.718	56.7	--	--
Benzo(g,h,i)Perylene	ug/kg	4.9	6.31	--	--	14.7	1.96	--	14.9	6.94	0.274	17.8	--	0.1
Benzo(j)+(k)Fluoranthene	ug/kg	3.87	2.51	--	--	7.75	0.766	--	8.15	1.09	0.288	9.09	--	--
Chrysene/Triphenylene	ug/kg	11.3	15.6	--	--	29.3	3	--	30	8.33	0.271	35.7	--	--
Dibenz(a,h)Anthracene	ug/kg	2.01	2.3	--	--	5.5	--	--	3.43	1.27	--	5.68	--	--
Fluoranthene	ug/kg	10.6	14.5	1.08	0.527	30	3.95	1	30.3	8.63	1.73	30.7	1.06	0.903
Fluorene	ug/kg	4.71	6.71	1.13	1.43	8.89	2.06	0.869	9.61	5.82	2.42	11	0.881	0.992
Indeno[1,2,3-cd]pyrene	ug/kg	4.46	5.98	--	--	15	--	--	11.6	4.13	0.252	14.6	--	--
Naphthalene	ug/kg	8.25	13	2.84	4.37	23	6.42	2.45	22.9	16.7	8.15	23.3	3.79	4.41
Phenanthrene	ug/kg	9.28	12.6	2.16	1.88	16.7	4.68	1.65	15.3	10.4	4.37	15.6	1.55	1.53
Pyrene	ug/kg	7.49	9.99	0.584	--	21.5	2.62	0.564	24.3	7.54	0.987	26.9	0.554	--
Forensic PAHs														
Benzo(e)Pyrene	ug/kg	5.43	9.08	--	--	20.5	2.05	--	20.8	6.14	0.212	23.4	--	--
C1-Chrysenes	ug/kg	--	--	--	--	62.3	--	--	33.4	10.7	--	72.6	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	9.12	12.4	0.602	--	21	2.4	0.473	26.4	7.82	0.754	31.1	--	--
C1-Fluorenes	ug/kg	2.58	3.15	0.719	0.5	4.25	--	0.368	5.01	1.95	0.624	6.84	--	0.338 J
C1-Phenanthrenes/Anthracenes	ug/kg	9.06	10.7	--	--	13.5	5.21	--	15	8.34	--	15.9	--	--
C2-Chrysenes	ug/kg	--	--	--	--	10.9	--	--	22	8.67	--	28.7	--	--
C2-Fluorenes	ug/kg	9.95 J	5.71 J	--	--	7.72	--	--	--	--	--	12.3	--	--
C2-Naphthalenes	ug/kg	7.55	11.2	2.06	--	13.8	3.14	1.33	15.7	8.23	3.53	16.6	--	3.32
C2-Phenanthrenes/Anthracenes	ug/kg	11.7	12.9	--	--	16.1	4.97	--	20.2	9.73	--	23.4	--	--
C3-Chrysenes	ug/kg	--	--	--	--	7.07	--	--	15.84	7.85	--	23.6	--	--
C3-Fluorenes	ug/kg	4.75	5.08	--	--	9.93	--	--	--	--	--	9.18	--	--
C3-Naphthalenes	ug/kg	4.70 J	10.9 J	3.55	--	7.53	4.12	1.45	6.5	5.44	2.39	10.1	--	3.51
C3-Phenanthrenes/Anthracenes	ug/kg	5.44	8.42	--	--	13.5	1.97	--	17.3	7.79	--	26.3	--	--
C4-Chrysenes	ug/kg	--	--	--	--	--	--	--	--	3.48	--	--	--	--
C4-Naphthalenes	ug/kg	--	9.35 J	4.19	--	5.41	2.15	1.02	6.38	2.85	0.796	12.8	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	6.71	6.19	--	--	13	1.43	--	15.6	7.33	--	26.7	--	--
Perylene	ug/kg	275 J	332 J	32.9 J	4.59 J	745	223 J	25.1 J	819	724 J	15.4 J	909	27.7 J	2.30 J
Phenanthrene, 2-methyl-	ug/kg	3.14	3.98	--	--	4.58	1.08	--	4.81	2.39	--	4.83	--	--
1,1-Biphenyl	ug/kg	4.64	6.08	NA	NA	5.72	NA	NA	5.8	NA	NA	5.45	NA	NA
18a-Oleanane	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.233	0.364	--	--	0.479	0.077 J	--	0.393	0.254	--	0.736	--	--
1-Methylfluorene	ug/kg	1.65	2.26	NA	NA	2.17	NA	NA	2.55	NA	NA	3.57	NA	NA
1-Methylphenanthrene	ug/kg	1.08	1.34	--	--	2.01	0.421	--	2.07	1.08	--	2.56	--	--
2,3,5-Trimethylnaphthalene	ug/kg	0.365	0.652	NA	NA	0.753	NA	NA	0.918	NA	NA	1.04	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	1.33	1.79	--	--	1.42	0.383	--	1.71	0.974	--	2.74	--	--
2-Methylanthracene	ug/kg	4.98	5.26	--	--	6.6	4.68	--	7.42	5.15	--	7.13	--	--
2-Methylfluoranthene	ug/kg	1.23	1.59	NA	NA	3.17	NA	NA	3.58	NA	NA	4.18	NA	NA
3,6-Dimethylphenanthrene	ug/kg	0.563	0.719	NA	NA	1.03	NA	NA	1.53	NA	NA	1.95	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	2.69	3.28	--	--	3.84	0.947	--	4.41	2.19	--	4.92	--	--
4-Methyldibenzothiophene(4MDT)	ug/kg	1.39	1.86	--	--	2.02	0.459	--	2.27	1.3	--	3.04	--	--
9/4-Methylphenanthrene (9MP)	ug/kg	1.52	2	--	--	2.91	0.582	--	3.46	1.54	--	4.03	--	--
Benzo(a)Fluoranthene	ug/kg	2.58 J	--	NA	NA	5.8	NA	NA	0.89	NA	NA	11.4	NA	NA
Benzo(b)fluorene	ug/kg	2.43	3.44	NA	NA	5.52	NA	NA	7.23	NA	NA	8.66	NA	NA
Benzothiophene	ug/kg	--	--	NA	NA	1.06	NA	NA	--	NA	NA	0.928	NA	NA
C1-Benzo(b)thiophenes	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C1-Decalins	ug/kg	7.71	11.4	NA	NA	15.8	NA	NA	17.7	NA	NA	18.2	NA	NA
C1-Dibenzothiophenes	ug/kg	2.27	3.09	--	--	3.02	0.663	--	3.38	1.83	--	5.02	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Re-Sampling Data

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

	Location	SED-DA-033R	SED-DA-033R	SED-DA-033R	SED-DA-033R	SED-DA-034R	SED-DA-034R	SED-DA-034R	SED-DA-035R	SED-DA-035R	SED-DA-035R	SED-DA-036R	SED-DA-036R	SED-DA-036R
	Depths (ft)	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-033R(0.0-0.5)	SED-DA-DUP-10-112013	SED-DA-033R(0.5-1.0)	SED-DA-033R(1.0-1.5)	SED-DA-034R(0.0-0.5)	SED-DA-034R(0.5-1.0)	SED-DA-034R(1.0-1.5)	SED-DA-035R(0.0-0.5)	SED-DA-035R(0.5-1.0)	SED-DA-035R(1.0-1.5)	SED-DA-036R(0.0-0.5)	SED-DA-036R(0.5-1.0)	SED-DA-036R(1.0-1.5)
Chemical	**Units**													
C1-Naphthalenes	ug/kg	6.25	10.2	1.64	3.26	17.1	3.55	1.51	16.3	11.3	5.96	17.5	2.53	3.17
C1-Naphthobenzothiophenes	ug/kg	7.49	10.6	NA	NA	13.6	NA	NA	19.3	NA	NA	33.7	NA	NA
C20-TAS	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C2-Decalins	ug/kg	4.85	7.81	NA	NA	12.1	NA	NA	13.5	NA	NA	13.6	NA	NA
C2-Dibenzothiophenes	ug/kg	3.3	4.55	--	--	5.64	1.01	--	7.9	3.31	--	11.4	--	--
C2-Fluoranthenes/Pyrenes	ug/kg	19.2	17	--	--	19.9	3.47	--	26.6	10.5	--	53.3	--	--
C2-Naphthobenzothiophenes	ug/kg	15.9	21.2	NA	NA	22.7	NA	NA	36.2	NA	NA	62.7	NA	NA
C30-Hopane	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C3-Decalins	ug/kg	4.15 J	7.95 J	NA	NA	10.5	NA	NA	9.79	NA	NA	11.3	NA	NA
C3-Dibenzothiophenes	ug/kg	4.57	6.2	--	--	7.23	1.1	--	10.6	5.16	--	21.6	--	--
C3-Fluoranthenes/Pyrenes	ug/kg	5.81	7.77	--	--	13.2	3.44	--	15.1	5.16	--	16.5	--	--
C3-Naphthobenzothiophenes	ug/kg	10.4	12.2	NA	NA	13.4	NA	NA	25.9	NA	NA	47.6	NA	NA
C4-Benzo(b)thiophenes	ug/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
C4-Decalins	ug/kg	6.46	6.17	NA	NA	9.56	NA	NA	9.48	NA	NA	12.4	NA	NA
C4-Dibenzothiophenes	ug/kg	4.62	5.66	--	--	6.02	0.731	--	8.93	--	--	14.3	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	11.3	14	--	--	20.7	3.96	--	13.9	5.4	--	17.6	--	--
C4-Naphthobenzothiophenes	ug/kg	7.6	7.06	NA	NA	7.58	NA	NA	10.7	NA	NA	19.7	NA	NA
Carbazole	ug/kg	1.02	1.28	NA	NA	2.7	NA	NA	2.52	NA	NA	2.44	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	5.64	7.37	NA	NA	8.09	NA	NA	11.8	NA	NA	12.6	NA	NA
Dibenzofuran	ug/kg	2.61	4.19	NA	NA	5.36	NA	NA	5.56	NA	NA	5.59	NA	NA
Dibenzothiophene	ug/kg	2.29	2.91	0.286	0.089 J	3.08	0.561	--	3.19	1.71	0.166	4.01	0.131	0.09 J
Naphthalene, 2,6-dimethyl-	ug/kg	3.37	5.63	NA	NA	6.17	NA	NA	8.03	NA	NA	8.3	NA	NA
Naphthobenzothiophene	ug/kg	6.44	10	NA	NA	10.1	NA	NA	11.7	NA	NA	13.4	NA	NA
Retene	ug/kg	2.5	2.84	NA	NA	5.81	NA	NA	2.77	NA	NA	6.78	NA	NA
TPH														
EOM (Extracted Organic Material)	mg/kg	317	416	NA	NA	842	NA	NA	634	NA	NA	969	NA	NA
i-C15	mg/kg	0.016 J	0.013 J	NA	NA	0.021	NA	NA	0.022	NA	NA	0.024	NA	NA
i-C16	mg/kg	0.007	0.009	NA	NA	0.013	NA	NA	0.022	NA	NA	0.028	NA	NA
i-C18	mg/kg	0.007	0.008	NA	NA	0.011	NA	NA	0.016	NA	NA	0.011	NA	NA
n-C10 (n-Decane)	mg/kg	0.185	0.281	NA	NA	0.409	NA	NA	0.458	NA	NA	0.459	NA	NA
n-C11 (n-Undecane)	mg/kg	0.275	0.45	NA	NA	0.718	NA	NA	0.764	NA	NA	0.743	NA	NA
n-C12 (n-Dodecane)	mg/kg	0.108 J	0.182 J	NA	NA	0.299	NA	NA	0.304	NA	NA	0.283	NA	NA
n-C13 (n-Tridecane)	mg/kg	0.031 J	0.055	NA	NA	0.083	NA	NA	0.077	NA	NA	0.076	NA	NA
n-C14 (n-Tetradecane)	mg/kg	0.041	0.069	NA	NA	0.092	NA	NA	0.1	NA	NA	0.098	NA	NA
n-C15 (Pentadecane)	mg/kg	0.022	0.043	NA	NA	0.063	NA	NA	0.062	NA	NA	0.041	NA	NA
n-C16 (n-Hexadecane)	mg/kg	0.025	0.031	NA	NA	0.045	NA	NA	0.038	NA	NA	0.037	NA	NA
n-C17 (Heptadecane)	mg/kg	0.129	0.161	NA	NA	0.525	NA	NA	0.247	NA	NA	0.295	NA	NA
n-C18 (Octadecane)	mg/kg	0.171	0.269	NA	NA	0.424	NA	NA	0.46	NA	NA	0.551	NA	NA
n-C19 (Nonadecane)	mg/kg	0.562	0.813	NA	NA	1.317	NA	NA	1.743	NA	NA	1.189	NA	NA
n-C20 (Eicosane)	mg/kg	0.056	0.049	NA	NA	0.204	NA	NA	0.208	NA	NA	0.255	NA	NA
n-C21 (Heneicosane)	mg/kg	0.107	0.135	NA	NA	0.399	NA	NA	0.319	NA	NA	0.521	NA	NA
n-C22 (Docosane)	mg/kg	0.058	0.068	NA	NA	0.202	NA	NA	0.142	NA	NA	0.224	NA	NA
n-C23 (Tricosane)	mg/kg	0.234	0.276	NA	NA	0.794	NA	NA	0.719	NA	NA	0.887	NA	NA
n-C24 (Tetracosane)	mg/kg	0.098	0.113	NA	NA	0.245	NA	NA	0.225	NA	NA	0.259	NA	NA
n-C25 (Pentacosane)	mg/kg	0.26	0.33	NA	NA	0.749	NA	NA	0.728	NA	NA	0.895	NA	NA
n-C26 (Hexacosane)	mg/kg	1.354	0.854	NA	NA	0.964	NA	NA	0.243	NA	NA	0.717	NA	NA
n-C27 (Heptacosane)	mg/kg	0.446 J	0.769 J	NA	NA	1.333	NA	NA	1.144	NA	NA	1.309	NA	NA
n-C28 (Octacosane)	mg/kg	0.216	0.174	NA	NA	0.674	NA	NA	0.356	NA	NA	0.395	NA	NA
n-C29 (Nonacosane)	mg/kg	1.729	1.951	NA	NA	6.267	NA	NA	2.274	NA	NA	1.658	NA	NA
n-C30 (n-Triacontane)	mg/kg	0.281	0.196	NA	NA	1.004	NA	NA	0.427	NA	NA	0.439	NA	NA
n-C31 (Hentriacontane)	mg/kg	1.926	1.892	NA	NA	7.053	NA	NA	2.515	NA	NA	1.151	NA	NA
n-C32 (Dotriacontane)	mg/kg	0.148	0.199	NA	NA	0.818	NA	NA	0.154	NA	NA	0.601	NA	NA
n-C33	mg/kg	1.688	1.56	NA	NA	6.327	NA	NA	3.65	NA	NA	1.085	NA	NA
n-C34 (Tetratriacontane)	mg/kg	0.145 J	0.285 J	NA	NA	0.355	NA	NA	0.149	NA	NA	0.411	NA	NA
n-C35	mg/kg	1.503	0.943	NA	NA	5.985	NA	NA	3.342	NA	NA	0.735	NA	NA
n-C36 (Hexatriacontane)	mg/kg	0.064	0.113	NA	NA	0.566	NA	NA	0.056	NA	NA	0.334	NA	NA
n-C37	mg/kg	0.617	0.577	NA	NA	1.271	NA	NA	0.795	NA	NA	0.459	NA	NA
n-C38 (Octatriacontane)	mg/kg	0.044	0.063	NA	NA	0.131	NA	NA	--	NA	NA	0.088	NA	NA
n-C39 (Nonatriacontane)	mg/kg	0.036	0.042	NA	NA	0.162	NA	NA	--	NA	NA	0.098	NA	NA
n-C40 (Tetracontane)	mg/kg	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	0.027	0.03	NA	NA	0.051	NA	NA	0.05	NA	NA	0.062	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.027	0.036	NA	NA	0.089	NA	NA	0.072	NA	NA	0.091	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.016	0.024	NA	NA	0.032	NA	NA	0.021	NA	NA	0.029	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Re-Sampling Data

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

	Location	SED-DA-033R	SED-DA-033R	SED-DA-033R	SED-DA-033R	SED-DA-034R	SED-DA-034R	SED-DA-034R	SED-DA-035R	SED-DA-035R	SED-DA-035R	SED-DA-036R	SED-DA-036R	SED-DA-036R
	Depths (ft)	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/20/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-033R(0.0-0.5)	SED-DA-DUP-10-112013	SED-DA-033R(0.5-1.0)	SED-DA-033R(1.0-1.5)	SED-DA-034R(0.0-0.5)	SED-DA-034R(0.5-1.0)	SED-DA-034R(1.0-1.5)	SED-DA-035R(0.0-0.5)	SED-DA-035R(0.5-1.0)	SED-DA-035R(1.0-1.5)	SED-DA-036R(0.0-0.5)	SED-DA-036R(0.5-1.0)	SED-DA-036R(1.0-1.5)
Chemical	**Units**													
Total Alkanes	mg/kg	12.7	13.1	NA	NA	39.7	NA	NA	21.9	NA	NA	16.5	NA	NA
Total Petroleum Hydrocarbons	mg/kg	177	193	NA	NA	353	NA	NA	278	NA	NA	407	NA	NA
Total Resolveable Hydrocarbons	mg/kg	89	106	NA	NA	201	NA	NA	148	NA	NA	201	NA	NA
Unresolved Complex Mixture	mg/kg	88	87	NA	NA	152	NA	NA	129	NA	NA	206	NA	NA
VOCs														
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	22 J	--	--	25 J	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	**46**	**43**	9 J	--	**150**	**22 J**	**14 J**	**180**	**15 J**	**13 J**	**89**	**18 J**	**15 J**
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Re-Sampling Data

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

	Location	SED-DA-037R	SED-DA-037R	SED-DA-037R	SED-DA-038R	SED-DA-038R	SED-DA-038R
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-037R(0.0-0.5)	SED-DA-037R(0.5-1.0)	SED-DA-037R(1.0-1.5)	SED-DA-038R(0.0-0.5)	SED-DA-038R(0.5-1.0)	SED-DA-038R(1.0-1.5)
Chemical	**Units**						
Metals							
Arsenic	mg/kg	**7.55**	5.02	1.74 J	**7.42 J**	7.13	3.09
Barium	mg/kg	119	133	117	152	153	169
Cadmium	mg/kg	--	--	--	--	--	--
Chromium	mg/kg	16.1 J	19.7 J	16.7 J	19.6 J	19.5 J	18.7 J
Lead	mg/kg	30.2	21.4	16.1	**37.2**	**32.8**	23.5
Mercury	mg/kg	0.0631 J	0.0517 J	0.0409 J	0.0543 J	0.0542 J	0.0554 J
Nickel	mg/kg	**19.1**	**17.5**	10.7	**23.1**	**19.6**	**16.6**
Selenium	mg/kg	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--
Vanadium	mg/kg	28	32.5	29.2	32.3	33.3	33.7
Other							
Black Carbon	%	0.36 J	NA	NA	0.41 J	NA	NA
Percent Moisture	%	71.4	34.4	24.6	75.3	53.9	30.7
Total Organic Carbon	%	5.02	NA	NA	4.81	NA	NA
Priority PAHs							
1-Methylnaphthalene	ug/kg	15.7	5.7	1.84	20.3	11.2	3.78
2-Methylnaphthalene	ug/kg	31.5	10.8	3.03	41.4	21.4	6.51
Acenaphthene	ug/kg	2.37	1.16	--	2.75	2.16	0.212
Acenaphthylene	ug/kg	12.2	1.89	--	17.1	4.53	0.269
Anthracene	ug/kg	18.1	--	0.204	24.3	6.66	0.336
Benzo(a)Anthracene	ug/kg	26.4 J	3.7	0.292	34.1	10.5	0.591
Benzo(a)Pyrene	ug/kg	17.8	2.57	NA R	27.3	6.6	0.377
Benzo(b)Fluoranthene	ug/kg	75.6	29.2	1.47	103	52.2	5.94
Benzo(g,h,i)Perylene	ug/kg	22.7 J	20.2	0.591	29.7	16.9	1.19
Benzo(j)+(k)Fluoranthene	ug/kg	14.3	3.68	0.378	24.9	7.38	0.54
Chrysene/Triphenylene	ug/kg	49.6	12.7	0.911	66.2	27.2	3.99
Dibenz(a,h)Anthracene	ug/kg	24.5 J	30.5	3.93	8.08	8.32	0.695
Fluoranthene	ug/kg	44.1	11.3	2.33	57.5	22.2	3.18
Fluorene	ug/kg	14.5	8.18	1.78	20.1	12.5	2.59
Indeno[1,2,3-cd]pyrene	ug/kg	18.2	32.8	3.66	23.5	17.8	1.51
Naphthalene	ug/kg	33.9	15.8	4.61	43.2	28.8	9.68
Phenanthrene	ug/kg	22.2	11.7	2.53	26.6	20.3	5.78
Pyrene	ug/kg	38.8	7.49	0.814	55.6	19.4	1.5
Forensic PAHs							
Benzo(e)Pyrene	ug/kg	31.7	8.7	--	48.9	19.4	1.6
C1-Chrysenes	ug/kg	71.3	--	--	52.3	44	8.73
C1-Fluoranthenes/Pyrenes	ug/kg	52.9	9.8	--	72.5	27.3	3.22
C1-Fluorenes	ug/kg	7.38	7.02	1.79	10	7.04	0.922
C1-Phenanthrenes/Anthracenes	ug/kg	20.5	9.67	--	25.8	16.3	5.29
C2-Chrysenes	ug/kg	41.3	--	--	54.3	26.5	3.13
C2-Fluorenes	ug/kg	34.32	8.52	--	29.6	23.3	--
C2-Naphthalenes	ug/kg	24.6	--	--	31.5	20.9	4.26
C2-Phenanthrenes/Anthracenes	ug/kg	33.5	11	--	44.6	23.3	--
C3-Chrysenes	ug/kg	25.5	--	--	41.2	22.7	2.42
C3-Fluorenes	ug/kg	18.8	8.92	--	32.4	17.3	--
C3-Naphthalenes	ug/kg	12.8	--	--	17	14.3	3.71
C3-Phenanthrenes/Anthracenes	ug/kg	34.2	9.49	--	54.1	39	--
C4-Chrysenes	ug/kg	--	--	--	18.6	15.2	1.5
C4-Naphthalenes	ug/kg	6.3	--	--	10.2	8.65	1.77
C4-Phenanthrenes/Anthracenes	ug/kg	32.8	8.14	--	40.9	43	--
Perylene	ug/kg	854	445 J	58.9 J	997	244 J	41.0 J
Phenanthrene, 2-methyl-	ug/kg	6.05	3.15	--	7.91	5.57	1.4
1,1-Biphenyl	ug/kg	7.11	NA	NA	8.93	NA	NA
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.797	0.267	--	0.792	0.758	0.047 J
1-Methylfluorene	ug/kg	3.91	NA	NA	4.88	NA	NA
1-Methylphenanthrene	ug/kg	3.55	1.64	--	3.06	3.21	0.567
2,3,5-Trimethylnaphthalene	ug/kg	1.39	NA	NA	1.85	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	3.03	0.95	--	4.32	2.56	0.343
2-Methylanthracene	ug/kg	9.03	5	--	10.2	6.47	4.46
2-Methylfluoranthene	ug/kg	6.19	NA	NA	8.72	NA	NA
3,6-Dimethylphenanthrene	ug/kg	3.02	NA	NA	3.94	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	6.17	2.88	--	8.24	5.1	1.03
4-Methyldibenzothiophene(4MDT)	ug/kg	3.61	1.41	--	4.65	3.21	0.5
9/4-Methylphenanthrene (9MP)	ug/kg	5.53	1.64	--	8.7	3.79	0.37
Benzo(a)Fluoranthene	ug/kg	6.87	NA	NA	6.27	NA	NA
Benzo(b)fluorene	ug/kg	13.2	NA	NA	16.1	NA	NA
Benzothiophene	ug/kg	1.43	NA	NA	1.85	NA	NA
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA
C1-Decalins	ug/kg	20.2	NA	NA	25.1	NA	NA
C1-Dibenzothiophenes	ug/kg	5.74	1.89	--	7.53	4.71	0.642

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Re-Sampling Data

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

	Location	SED-DA-037R	SED-DA-037R	SED-DA-037R	SED-DA-038R	SED-DA-038R	SED-DA-038R
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-037R(0.0-0.5)	SED-DA-037R(0.5-1.0)	SED-DA-037R(1.0-1.5)	SED-DA-038R(0.0-0.5)	SED-DA-038R(0.5-1.0)	SED-DA-038R(1.0-1.5)
Chemical	**Units**						
C1-Naphthalenes	ug/kg	28.2	10.1	2.98	36.9	20	6.29
C1-Naphthobenzothiophenes	ug/kg	45.6	NA	NA	65.2	NA	NA
C20-TAS	ug/kg	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	--	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA
C2-Decalins	ug/kg	19.2	NA	NA	25.2	NA	NA
C2-Dibenzothiophenes	ug/kg	14.5	3.99	--	19.7	12.2	0.507
C2-Fluoranthenes/Pyrenes	ug/kg	60.2	--	--	65.9	30.6	2.54
C2-Naphthobenzothiophenes	ug/kg	75.3	NA	NA	121	NA	NA
C30-Hopane	ug/kg	--	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA
C3-Decalins	ug/kg	12.5	NA	NA	27	NA	NA
C3-Dibenzothiophenes	ug/kg	24.5	5.31	--	33.9	22.5	0.581
C3-Fluoranthenes/Pyrenes	ug/kg	33.5	--	--	44.8	22	1.11
C3-Naphthobenzothiophenes	ug/kg	60.9	NA	NA	95.4	NA	NA
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA
C4-Decalins	ug/kg	18.2	NA	NA	18.4	NA	NA
C4-Dibenzothiophenes	ug/kg	28.8	3.03	--	36.2	19.3	--
C4-Fluoranthenes/Pyrenes	ug/kg	22.6	--	--	25.8	18.9	3.37
C4-Naphthobenzothiophenes	ug/kg	26.4	NA	NA	38.9	NA	NA
Carbazole	ug/kg	3.83	NA	NA	4.55	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	15.7	NA	NA	17.4	NA	NA
Dibenzofuran	ug/kg	8.34	NA	NA	11.2	NA	NA
Dibenzothiophene	ug/kg	4.42	4.39	0.414	6.09	4.1	0.779
Naphthalene, 2,6-dimethyl-	ug/kg	12.4	NA	NA	17.11	NA	NA
Naphthobenzothiophene	ug/kg	24.5	NA	NA	20.8	NA	NA
Retene	ug/kg	7.63	NA	NA	6.89	NA	NA
TPH							
EOM (Extracted Organic Material)	mg/kg	1151	NA	NA	1212	NA	NA
i-C15	mg/kg	0.017	NA	NA	0.012 J	NA	NA
i-C16	mg/kg	0.053	NA	NA	0.067	NA	NA
i-C18	mg/kg	0.034	NA	NA	0.034	NA	NA
n-C10 (n-Decane)	mg/kg	0.75	NA	NA	0.749	NA	NA
n-C11 (n-Undecane)	mg/kg	1.511	NA	NA	1.492	NA	NA
n-C12 (n-Dodecane)	mg/kg	0.683	NA	NA	0.668	NA	NA
n-C13 (n-Tridecane)	mg/kg	0.194	NA	NA	0.186	NA	NA
n-C14 (n-Tetradecane)	mg/kg	0.243	NA	NA	0.233	NA	NA
n-C15 (Pentadecane)	mg/kg	0.163	NA	NA	0.088	NA	NA
n-C16 (n-Hexadecane)	mg/kg	0.084	NA	NA	0.082	NA	NA
n-C17 (Heptadecane)	mg/kg	0.687	NA	NA	0.444	NA	NA
n-C18 (Octadecane)	mg/kg	0.909	NA	NA	0.785	NA	NA
n-C19 (Nonadecane)	mg/kg	2.063	NA	NA	2.094	NA	NA
n-C20 (Eicosane)	mg/kg	0.53	NA	NA	0.611	NA	NA
n-C21 (Heneicosane)	mg/kg	0.973	NA	NA	1.138	NA	NA
n-C22 (Docosane)	mg/kg	0.319	NA	NA	0.325	NA	NA
n-C23 (Tricosane)	mg/kg	1.71	NA	NA	1.454	NA	NA
n-C24 (Tetracosane)	mg/kg	0.5	NA	NA	0.421	NA	NA
n-C25 (Pentacosane)	mg/kg	1.92	NA	NA	1.514	NA	NA
n-C26 (Hexacosane)	mg/kg	0.633	NA	NA	0.591	NA	NA
n-C27 (Heptacosane)	mg/kg	2.189	NA	NA	1.707	NA	NA
n-C28 (Octacosane)	mg/kg	0.689	NA	NA	0.606	NA	NA
n-C29 (Nonacosane)	mg/kg	2.457	NA	NA	1.863	NA	NA
n-C30 (n-Triacontane)	mg/kg	1.05	NA	NA	0.618	NA	NA
n-C31 (Hentriacontane)	mg/kg	2.269	NA	NA	3.473	NA	NA
n-C32 (Dotriacontane)	mg/kg	0.76	NA	NA	0.311	NA	NA
n-C33	mg/kg	1.581	NA	NA	4.865	NA	NA
n-C34 (Tetratriacontane)	mg/kg	0.687	NA	NA	0.287	NA	NA
n-C35	mg/kg	1.309	NA	NA	4.195	NA	NA
n-C36 (Hexatriacontane)	mg/kg	0.511	NA	NA	0.216	NA	NA
n-C37	mg/kg	1.111	NA	NA	1.173	NA	NA
n-C38 (Octatriacontane)	mg/kg	0.083	NA	NA	0.108	NA	NA
n-C39 (Nonatriacontane)	mg/kg	0.23	NA	NA	0.287	NA	NA
n-C40 (Tetracontane)	mg/kg	0.019 J	NA	NA	0.108	NA	NA
n-C9 (Nonane)	mg/kg	0.044	NA	NA	0.052	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.139	NA	NA	0.115	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.059	NA	NA	0.031	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Re-Sampling Data

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

	Location	SED-DA-037R	SED-DA-037R	SED-DA-037R	SED-DA-038R	SED-DA-038R	SED-DA-038R
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
	Sample ID	SED-DA-037R(0.0-0.5)	SED-DA-037R(0.5-1.0)	SED-DA-037R(1.0-1.5)	SED-DA-038R(0.0-0.5)	SED-DA-038R(0.5-1.0)	SED-DA-038R(1.0-1.5)
Chemical	**Units**						
Total Alkanes	mg/kg	29.2	NA	NA	33	NA	NA
Total Petroleum Hydrocarbons	mg/kg	556	NA	NA	556	NA	NA
Total Resolveable Hydrocarbons	mg/kg	301	NA	NA	227	NA	NA
Unresolved Complex Mixture	mg/kg	255	NA	NA	329	NA	NA
VOCs							
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	39 J	--	--	24 J	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	**270**	**28 J**	**16 J**	**200**	**54**	**31**
Benzene	ug/kg	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Re-Sampling Data

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

Notes:

% = percent

-- = Compound was not detected

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

E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)

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

mg/kg = milligrams per kilogram

NA = not analyzed

PAH = polycyclic aromatic hydrocarbons

TPH = total petroleum hydrocarbon

ug/kg = micrograms per kilogram

VOCs = volatile organic compounds

R = The sample results are rejected

DARSP Surface Water Sampling
Data Table

Appendix K - Analytical Data Tables - Detected Analytes Only
DARSP Surface Water Sampling Data

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

Chemical	Units	WS-022DA Surface 8/13/2013 WS-022DA(SURFACE)081313	WS-023DA Surface 8/13/2013 WS-023DA(SURFACE)081313	WS-024DA Mid-Depth 8/13/2013 WS-024DA(MIDDEPTH)081313	WS-025DA Mid-Depth 8/15/2013 WS-025DA(MIDDEPTH)081513	WS-026DA Mid-Depth 8/15/2013 WS-026DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-027DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-DUP-01-DA-081513FD
Metals								
Arsenic - Dissolved	mg/l	--	--	--	--	--	--	--
Arsenic - Total	mg/l	--	--	--	--	--	--	--
Barium - Dissolved	mg/l	0.0208	0.0167	0.0215	0.0169	0.0223	0.0208	0.0209
Barium - Total	mg/l	0.0378	0.0383	0.0364	0.0324	0.0370	0.0321	0.0315
Cadmium - Dissolved	mg/l	--	--	--	--	--	--	--
Cadmium - Total	mg/l	--	--	--	--	--	--	--
Calcium - Total	mg/l	6.17 J	5.12 J	4.51 J	8.76 J	3.70 J	3.68 J	3.58 J
Chromium - Dissolved	mg/l	--	--	--	--	--	--	--
Chromium - Total	mg/l	0.0034 J	0.0060 J	0.0038 J	0.0022 J	0.0023 J	--	0.0018 J
Lead - Dissolved	mg/l	--	--	--	--	--	--	--
Lead - Total	mg/l	--	0.0057 J	--	--	--	--	--
Magnesium - Total	mg/l	3.55 J	2.98 J	1.69 J	4.34 J	1.67 J	1.61 J	1.55 J
Mercury - Dissolved	mg/l	--	--	--	--	--	--	--
Mercury - Total	mg/l	--	--	--	--	--	--	--
Nickel - Dissolved	mg/l	0.0042 J	0.0026 J	0.0017 J	0.0018 J	--	--	--
Nickel - Total	mg/l	0.0065 J	0.0065 J	0.0032 J	0.0030 J	0.0020 J	0.0018 J	--
Selenium - Dissolved	mg/l	--	--	--	--	--	--	--
Selenium - Total	mg/l	--	--	--	--	--	--	--
Silver - Dissolved	mg/l	--	--	--	--	--	--	--
Silver - Total	mg/l	--	--	--	--	--	--	--
Vanadium - Dissolved	mg/l	--	--	--	--	--	--	--
Vanadium - Total	mg/l	0.0035 J	0.0074	0.0043 J	0.0027 J	0.0024 J	--	--
Other								
Hardness (as CaCO3)	mg/l	30.0	25.1	18.2	39.8	16.1	15.8	15.3
Total Suspended Solids	mg/l	30.4 J	50.0 J	28.7 J	110	28.3	15.0	16.4
Priority PAHs								
1-Methylnaphthalene - Total	ng/l	--	--	--	--	10.5	18.0	23.41
2-Methylnaphthalene - Total	ng/l	--	--	--	--	--	23.4	28.63
Acenaphthene - Total	ng/l	--	--	--	--	1.31 J	7.00 J	10.88 J
Acenaphthylene - Total	ng/l	6.86 J	9.92 J	3.64 J	--	2.09	14.03	15.34
Anthracene - Total	ng/l	18.49 J	27.62 J	6.76 J	--	1.85	24.47	28.84
Benzo(a)Anthracene - Total	ng/l	3.57 J	5.10 J	2.33 J	--	1.08	25.39	24.58
Benzo(a)Pyrene - Total	ng/l	6.47 J	10.48 J	3.69 J	--	--	34.75	39.48
Benzo(b)Fluoranthene - Total	ng/l	27.76 J	39.22 J	12.40 J	--	2.47	99.8	100.66
Benzo(g,h,i)Perylene - Total	ng/l	13.56 J	18.67 J	5.89 J	--	2.12 J	49.14	54.74
Benzo(j)+(k)Fluoranthene - Total	ng/l	6.41 J	9.39 J	2.89 J	--	0.75 J	32.9	31.31
Chrysene/Triphenylene - Total	ng/l	11.77 J	16.80 J	8.11 J	--	2.52	54.38	62.62
Dibenz(a,h)Anthracene - Total	ng/l	3.33 J	4.35 J	1.59 J	--	1.11 J	13.82 J	5.31 J
Fluoranthene - Total	ng/l	9.36 J	15.48 J	10.33 J	--	4.79	64.56 J	90.01 J
Fluorene - Total	ng/l	--	1.61 J	1.64 J	--	4.95	17.93 J	24.87 J
Indeno[1,2,3-cd]pyrene - Total	ng/l	11.05 J	15.63 J	5.63 J	--	1.73	43.43	48.14
Naphthalene - Total	ng/l	--	--	47.35 J	--	--	21.45 J	31.01 J
Phenanthrene - Total	ng/l	--	--	--	--	--	42.38 J	61.62 J
Pyrene - Total	ng/l	9.30 J	12.84 J	5.11 J	--	3.05	49.78	59.38
Additional PAHs for TU								
Benzo(e)Pyrene - Total	ng/l	17.51 J	23.56 J	7.43 J	--	--	59.95	65.24
C1-Chrysenes - Total	ng/l	--	--	--	--	--	--	--
C1-Fluoranthenes/Pyrenes - Total	ng/l	9.32 J	--	--	--	--	43.19	49.73
C1-Fluorenes - Total	ng/l	--	--	--	--	8.81	24.02	32.12
C1-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	95.11	111.31
C2-Chrysenes - Total	ng/l	--	--	--	--	--	--	--
C2-Fluorenes - Total	ng/l	--	--	--	--	--	--	--
C2-Naphthalenes - Total	ng/l	--	--	--	--	30.85	68.40	92.46
C2-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	139.61	161.29
C3-Chrysenes - Total	ng/l	--	--	--	--	--	--	--
C3-Fluorenes - Total	ng/l	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
DARSP Surface Water Sampling Data

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

Chemical	Units	WS-022DA Surface 8/13/2013 WS-022DA(SURFACE)081313	WS-023DA Surface 8/13/2013 WS-023DA(SURFACE)081313	WS-024DA Mid-Depth 8/13/2013 WS-024DA(MIDDEPTH)081313	WS-025DA Mid-Depth 8/15/2013 WS-025DA(MIDDEPTH)081513	WS-026DA Mid-Depth 8/15/2013 WS-026DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-027DA(MIDDEPTH)081513	WS-027DA Mid-Depth 8/15/2013 WS-DUP-01-DA-081513FD
C3-Naphthalenes - Total	ng/l	--	--	--	--	43.27	75.78 J	127.75 J
C3-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	67.38 J	--
C4-Chrysenes - Total	ng/l	--	--	--	--	--	--	--
C4-Naphthalenes - Total	ng/l	--	--	--	--	--	53.07 J	--
C4-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	44.96 J	--
Perylene - Total	ng/l	3.44 J	5.10 J	--	--	0.97	105	136.81
Phenanthrene, 2-methyl- - Total	ng/l	--	--	--	--	--	13.0 J	16.89 J
Forensic PAHs								
1,1-Biphenyl - Total	ng/l	--	--	--	--	--	30.87	38.08
18a-Oleanane - Total	ng/l	--	--	--	--	--	--	--
1-Methyldibenzothiophene(1MDT) - Total	ng/l	--	--	--	--	4.68	14.8	19.95
1-Methylfluorene - Total	ng/l	--	--	--	--	4.89	12.5 J	18.09 J
1-Methylphenanthrene - Total	ng/l	--	--	--	--	--	10.3	10.93
2,3,5-Trimethylnaphthalene - Total	ng/l	--	--	--	--	4.48	9.97	11.02
2/3-Methyldibenzothiophene(2MDT) - Total	ng/l	--	--	--	--	3.13	13.7 J	19.39 J
2-Methylanthracene - Total	ng/l	--	--	--	--	--	57.6	59.92
2-Methylfluoranthene - Total	ng/l	1.01 J	--	--	--	--	5.04	4.82
3,6-Dimethylphenanthrene - Total	ng/l	--	--	--	--	--	2.96	--
3-Methylphenanthrene (3MP) - Total	ng/l	--	--	--	--	--	8.1 J	11.88 J
4-Methyldibenzothiophene(4MDT) - Total	ng/l	--	--	--	--	4.69	18.1	24.36
9/4-Methylphenanthrene (9MP) - Total	ng/l	--	--	--	--	--	11.6 J	18.19 J
Benzo(a)Fluoranthene - Total	ng/l	2.29 J	3.47 J	1.10 J	--	--	9.36 J	--
Benzo(b)fluorene - Total	ng/l	0.57 J	--	--	--	--	9.90	11.42
Benzothiophene - Total	ng/l	--	--	--	--	--	--	--
C1-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C1-Decalins - Total	ng/l	--	--	--	--	--	--	--
C1-Dibenzothiophenes - Total	ng/l	--	--	--	--	7.46	27.86 J	38.07 J
C1-Naphthalenes - Total	ng/l	--	--	--	--	10.26	27.29	34.25
C1-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	21.79 J	32.25 J
C20-TAS - Total	ng/l	--	--	--	--	--	--	--
C21-TAS - Total	ng/l	--	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS - Total	ng/l	--	--	--	--	--	--	--
C26(20S)-TAS - Total	ng/l	--	--	--	--	--	--	--
C27(20R)-TAS - Total	ng/l	--	--	--	--	--	--	--
C28(20R)-TAS - Total	ng/l	--	--	--	--	--	--	--
C28(20S)-TAS - Total	ng/l	--	--	--	--	--	--	--
C29-Hopane - Total	ng/l	--	--	--	--	--	--	--
C2-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C2-Decalins - Total	ng/l	--	--	--	--	--	--	--
C2-Dibenzothiophenes - Total	ng/l	--	--	--	--	10.26	42.31 J	63.35 J
C2-Fluoranthenes/Pyrenes - Total	ng/l	11.09 J	--	--	--	--	49.50 J	79.71 J
C2-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	36.65 J	54.35 J
C30-Hopane - Total	ng/l	--	--	--	--	--	--	--
C3-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C3-Decalins - Total	ng/l	--	--	--	--	--	--	--
C3-Dibenzothiophenes - Total	ng/l	--	--	--	--	8.27	52.14 J	76.63 J
C3-Fluoranthenes/Pyrenes - Total	ng/l	4.71 J	--	--	--	--	--	40.83 J
C3-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	34.26 J	51.49 J
C4-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C4-Decalins - Total	ng/l	--	--	--	--	--	--	--
C4-Dibenzothiophenes - Total	ng/l	--	--	--	--	--	40.11 J	55.70 J
C4-Fluoranthenes/Pyrenes - Total	ng/l	--	--	--	--	--	--	--
C4-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	--	--
Carbazole - Total	ng/l	2.18 J	2.82 J	2.14 J	--	--	8.65	9.62
cis/trans-Decalin (Decahydronaphthalene) - Total	ng/l	--	--	--	--	--	--	--
Dibenzofuran - Total	ng/l	2.85 J	2.87 J	2.31 J	--	3.29	9.97 J	15.57 J
Dibenzothiophene - Total	ng/l	--	--	--	--	3.09	15.60	20.16

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Naphthalene, 2,6-dimethyl- - Total	ng/l	--	--	--	--	6.72	21.5 J	32.23 J
Naphthobenzothiophene - Total	ng/l	--	--	--	--	--	19.50	19.91
Retene - Total	ng/l	--	--	--	--	--	7.24 J	--
TPH								
Oil & Grease	mg/l	--	--	--	--	--	--	--
VOCs								
1,2,4-Trimethylbenzene	ug/l	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/l	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/l	--	--	--	1.3 J	--	--	--
2-Phenylbutane	ug/l	--	--	--	--	--	--	--
Acetone	ug/l	3.1 J	3.7 J	--	13	5.2	4.4 J	4.0 J
Benzene	ug/l	--	--	--	--	--	--	--
Chloroform	ug/l	--	--	--	--	0.1 J	--	--
Ethylbenzene	ug/l	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/l	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/l	--	--	--	--	--	--	--
n-Butylbenzene	ug/l	--	--	--	--	--	--	--
n-Propylbenzene	ug/l	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/l	--	--	--	--	--	--	--
Toluene	ug/l	--	--	--	0.1 J	--	--	--
Trichloroethene	ug/l	0.2 J	0.4 J	--	--	--	0.2 J	0.3 J
Xylene (Total)	ug/l	--	--	--	--	--	--	--

Notes:

-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
Deg C = degrees Celsius
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/l = milligrams per liter
NTU = Nephelometric Turbidity Units
PAH = polycyclic aromatic hydrocarbons
SU = standard units
TPH = total petroleum hydrocarbons
ug/l = micrograms per liter
uS/cm = microSiemens per centimeter
VOC = volatile organic compound