ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

June 18, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/12/2013
Group Number: 1396385
SDG: PEI17
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(Surface)061113 Grab Surface Water	7089513
WS-002(Surface)061113 Grab Surface Water	7089514
WS-BKG-002(Surface)061113 Grab Surface Water	7089515
WS-005(Surface)061113 Grab Surface Water	7089516
WS-008(Surface)061113 Grab Surface Water	7089517
WS-001(Surface)061113 Grab Surface Water	7089518
WS-001(0.5-1.0)061113 Grab Surface Water	7089519
WS-004(Surface)061113 Grab Surface Water	7089520
WS-004(0.5-1.0)061113 Grab Surface Water	7089521
WS-007(Surface)061113 Grab Surface Water	7089522
WS-007(0.5-1.0)061113 Grab Surface Water	7089523
WS-006(Surface)061113 Grab Surface Water	7089524
WS-006(0.5-1.0)061113 Grab Surface Water	7089525
DUP-WS-39-061113 Grab Surface Water	7089526
WS-TB-70-061113 Water	7089527

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer

ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee
ELECTRONIC COPY TO	ARCADIS	Attn: Jamie Pritchard
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1396385

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13163WAI026 (Sample number(s): 7089513-7089526)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7089513, 7089514, 7089515

Sample #s: 7089515, 7089516, 7089517, 7089518, 7089519, 7089520, 7089521, 7089522, 7089523, 7089524, 7089525, 7089526

The laboratory did not receive sufficient sample volume to perform

the method QC requirement for MS/MSD or MS/DUP analysis.

Sample #s: 7089513, 7089514

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis. The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

SW-846 6010B, Metals

Batch #: 131631848002 (Sample number(s): 7089513-7089526 UNSPK: 7089515 BKG: 7089515)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Chromium

SW-846 7470A, Metals

Batch #: 131635713002 (Sample number(s): 7089513-7089526 UNSPK: 7089519 BKG: 7089519)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Mercury

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Mercury

Sample Description: WS-003(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089513
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:00 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11003 SDG#: PEI17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-003(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089513
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:00 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11003 SDG#: PEI17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	18.9	0.064	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-003(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089513
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:00 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11003 SDG#: PEI17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0169	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.28	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.99	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 13:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 13:25	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/13/2013 21:49	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 17:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 07:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-002(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089514
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11002 SDG#: PEI17-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-002(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089514
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11002 SDG#: PEI17-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	18.8	0.064	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-002(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089514
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11002 SDG#: PEI17-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0179	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.26	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.98	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0017 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 15:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 15:09	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/13/2013 22:16	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 17:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-BKG-002(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089515
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11BK2 SDG#: PEI17-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-BKG-002(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089515
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11BK2 SDG#: PEI17-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	31.0	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0393	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-BKG-002(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089515
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 07:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11BK2 SDG#: PEI17-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	7.52	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0016 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.96	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0033 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0025 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00018 J	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 15:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 15:30	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/13/2013 22:43	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 17:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 07:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-005(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089516
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 08:15 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11005 SDG#: PEI17-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-005(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089516
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 08:15 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11005 SDG#: PEI17-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	19.8	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0144	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-005(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089516
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 08:15 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11005 SDG#: PEI17-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	4.61	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.02	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 15:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 15:51	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/13/2013 23:11	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 17:51	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 07:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-008(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089517
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 08:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11008 SDG#: PEI17-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	Acetone	67-64-1	4.8	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-008(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089517
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 08:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11008 SDG#: PEI17-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.024	J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	0.019	J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	0.042	J	0.010	0.051	1
08357	Fluorene	86-73-7	0.027	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.011	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.015	J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.068		0.030	0.051	1
08357	Phenanthrene	85-01-8	0.062		0.030	0.051	1
08357	Pyrene	129-00-0	0.034	J	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	70.7		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0559		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-008(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089517
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 08:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11008 SDG#: PEI17-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	16.6	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.12	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0018 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 16:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 16:12	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/13/2013 23:38	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 17:55	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-001(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089518
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:20 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11011 SDG#: PEI17-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-001(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089518
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:20 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11011 SDG#: PEI17-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	18.9	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0205	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-001(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089518
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:20 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11011 SDG#: PEI17-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	4.29	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.98	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 16:33	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 16:33	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 00:05	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 17:59	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-001(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089519
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11012 SDG#: PEI17-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-001(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089519
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11012 SDG#: PEI17-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	19.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0215	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-001(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089519
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11012 SDG#: PEI17-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	4.37	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.00	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0017 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 16:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 16:54	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 00:32	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:03	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-004(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089520
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:40 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11041 SDG#: PEI17-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	3.9	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-004(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089520
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:40 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11041 SDG#: PEI17-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.1	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.056	1
08357	Anthracene	120-12-7	N.D.		0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.056	1
08357	Chrysene	218-01-9	N.D.		0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.		0.011	0.056	1
08357	Fluorene	86-73-7	N.D.		0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	0.012	J	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.011	0.056	1
08357	Naphthalene	91-20-3	N.D.		0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.		0.033	0.056	1
08357	Pyrene	129-00-0	N.D.		0.011	0.056	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.3		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0326		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-004(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089520
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:40 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11041 SDG#: PEI17-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.85	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0015 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0026 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0031 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 17:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 17:15	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 00:59	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:06	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-004(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089521
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11042 SDG#: PEI17-09

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	3.7	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-004(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089521
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11042 SDG#: PEI17-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	1.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.012 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	20.3	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0708	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-004(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089521
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 09:50 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11042 SDG#: PEI17-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	4.74	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0080 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0339	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.05	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0081 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0099	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000094 J	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 17:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 17:36	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 01:27	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:10	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-007(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089522
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:00 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11071 SDG#: PEI17-10

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	4.3	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-007(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089522
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:00 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11071 SDG#: PEI17-10

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.4	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	N.D.		0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	0.016	J	0.010	0.051	1
08357	Fluorene	86-73-7	0.011	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.018	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.015	J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.017	J	0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.5		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0379		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-007(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089522
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:00 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11071 SDG#: PEI17-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.82	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.69	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0032 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0037 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000071 J	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 17:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 17:57	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 01:54	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:14	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-007(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089523
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:10 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11072 SDG#: PEI17-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	3.6 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-007(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089523
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:10 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11072 SDG#: PEI17-11

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	1.5		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.022	J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.035	J	0.010	0.051	1
08357	Anthracene	120-12-7	0.060		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.16		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.15		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.49		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.12		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.14		0.010	0.051	1
08357	Chrysene	218-01-9	0.45		0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.032	J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.57		0.010	0.051	1
08357	Fluorene	86-73-7	0.023	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.17		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.015	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.020	J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.051	1
08357	Phenanthrene	85-01-8	0.14		0.031	0.051	1
08357	Pyrene	129-00-0	0.62		0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.3		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0452		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-007(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089523
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:10 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11072 SDG#: PEI17-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	4.00	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0029 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.79	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0036 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0047 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000080 J	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 18:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 18:17	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 02:21	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:18	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-006(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089524
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:20 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11061 SDG#: PEI17-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-006(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089524
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:20 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11061 SDG#: PEI17-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	18.6	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0190	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-006(Surface)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089524
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:20 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11061 SDG#: PEI17-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	4.26	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.95	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00015 J	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 18:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 18:38	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 02:48	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:21	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-006(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089525
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11062 SDG#: PEI17-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-006(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089525
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11062 SDG#: PEI17-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	19.1	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0184	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-006(0.5-1.0)061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089525
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 10:30 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11062 SDG#: PEI17-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	4.36	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.00	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 18:59	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 18:59	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 03:15	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:25	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-WS-39-061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089526
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11D39 SDG#: PEI17-14FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	5.3	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-WS-39-061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089526
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11D39 SDG#: PEI17-14FD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.032	J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.012	J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.012	J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	0.020	J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	0.044	J	0.010	0.051	1
08357	Fluorene	86-73-7	0.029	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.012	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.015	J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.076		0.031	0.051	1
08357	Phenanthrene	85-01-8	0.068		0.031	0.051	1
08357	Pyrene	129-00-0	0.040	J	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	70.2		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0549		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-WS-39-061113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089526
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013 by SB

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11D39 SDG#: PEI17-14FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	16.5	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.06	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0035 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0020 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 19:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 19:20	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAI026	06/14/2013 03:42	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13163WAI026	06/13/2013 09:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131676256001	06/16/2013 16:15	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07046	Barium	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
01750	Calcium	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07051	Chromium	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07055	Lead	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07061	Nickel	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07036	Selenium	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07066	Silver	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131631848002	06/14/2013 18:37	John P Hook	1
00259	Mercury	SW-846 7470A	1	131635713002	06/14/2013 08:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131631848002	06/12/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131635713002	06/13/2013 16:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-TB-70-061113 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089527
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11T70 SDG#: PEI17-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: WS-TB-70-061113 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7089527
LLI Group # 1396385
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/11/2013

Submitted: 06/12/2013 09:25
Reported: 06/18/2013 19:43

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

11T70 SDG#: PEI17-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131641AA	06/13/2013 12:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131641AA	06/13/2013 12:43	Jason M Long	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ExxonMobil Group Number: 1396385
Reported: 06/18/13 at 07:43 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: I131641AA	Sample number(s): 7089513-7089527								
Acetone	N.D.	3.0	5.0	ug/l	103		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	97		61-130		
Benzene	N.D.	0.1	0.5	ug/l	97		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	104		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	109		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	123		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	76		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	105		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	116		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	72		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	69		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	92		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	95		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	102		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	110		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	104		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	54		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	121		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	111		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	99		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	118		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	101		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	106		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	102		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	93		61-125		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1396385
Reported: 06/18/13 at 07:43 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	97		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	103		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	102		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	103		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Styrene	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	104		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	93		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	102		65-131		
Toluene	N.D.	0.1	0.5	ug/l	96		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	93		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	91		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	114		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	94		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	103		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	76		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	99		80-120		
Batch number: 13163WAI026	Sample number(s): 7089513-7089526								
Acenaphthene	N.D.	0.010	0.050	ug/l	105	96	65-124	10	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	111	100	72-113	11	30
Anthracene	N.D.	0.010	0.050	ug/l	105	96	70-117	9	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	110	101	75-115	8	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	107	98	72-120	8	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	117	102	74-130	13	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	105	96	63-121	9	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	105	100	74-118	5	30
Chrysene	N.D.	0.010	0.050	ug/l	102	97	75-112	5	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	105	97	66-122	7	30
Fluoranthene	N.D.	0.010	0.050	ug/l	105	98	73-116	7	30
Fluorene	N.D.	0.010	0.050	ug/l	102	94	74-115	8	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	105	94	66-122	11	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	108	97	72-114	10	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	102	95	74-119	7	30
Naphthalene	N.D.	0.030	0.050	ug/l	107	96	67-118	11	30
Phenanthrene	N.D.	0.030	0.050	ug/l	100	92	72-109	8	30
Pyrene	N.D.	0.010	0.050	ug/l	108	103	71-116	5	30
Batch number: 131631848002	Sample number(s): 7089513-7089526								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	104		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	102		90-112		
Calcium	0.0702 J	0.0640	0.200	mg/l	104		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	105		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	103		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	114		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	103		90-110		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1396385
Reported: 06/18/13 at 07:43 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131635713002	Sample number(s): 7089513-7089526								
Mercury	N.D.	0.00007 0	0.00020	mg/l	100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: I131641AA	Sample number(s): 7089513-7089527 UNSPK: 7089513								
Acetone	112	98	57-163	14	30				
Allyl Chloride	108	109	67-139	1	30				
Benzene	107	105	87-126	1	30				
Bromobenzene	101	99	80-123	2	30				
Bromochloromethane	109	110	82-125	0	30				
Bromodichloromethane	119	115	82-133	3	30				
Bromoform	127	123	60-138	3	30				
Bromomethane	81	82	41-145	1	30				
2-Butanone	116	94	63-146	20	30				
n-Butylbenzene	107	103	83-131	4	30				
sec-Butylbenzene	106	102	84-128	4	30				
tert-Butylbenzene	103	99	84-135	4	30				
Carbon Tetrachloride	136	129	81-148	6	30				
Chlorobenzene	107	104	78-133	2	30				
Chloroethane	79	80	70-139	1	30				
Chloroform	119	116	86-136	3	30				
Chloromethane	70	78	55-152	10	30				
2-Chlorotoluene	100	99	81-120	2	30				
4-Chlorotoluene	102	99	82-119	3	30				
1,2-Dibromo-3-chloropropane	117	93	43-143	23	30				
Dibromochloromethane	116	114	79-125	2	30				
1,2-Dibromoethane	105	105	84-127	0	30				
Dibromomethane	114	111	83-126	2	30				
1,2-Dichlorobenzene	104	101	83-117	3	30				
1,3-Dichlorobenzene	106	103	81-118	3	30				
1,4-Dichlorobenzene	104	102	79-120	2	30				
Dichlorodifluoromethane	58	57	28-136	2	30				
1,1-Dichloroethane	113	111	88-136	2	30				
1,2-Dichloroethane	132	127	82-135	4	30				
1,1-Dichloroethene	116	114	83-150	2	30				
cis-1,2-Dichloroethene	106	104	82-129	2	30				
trans-1,2-Dichloroethene	111	108	88-127	3	30				
Dichlorofluoromethane	129	121	59-176	6	30				
1,2-Dichloropropane	108	106	91-126	2	30				
1,3-Dichloropropane	107	105	80-127	1	30				
2,2-Dichloropropane	134	130	80-134	3	30				
1,1-Dichloropropene	117	112	86-139	4	30				
cis-1,3-Dichloropropene	107	106	74-132	1	30				
trans-1,3-Dichloropropene	105	104	71-128	1	30				
Ethyl ether	111	117	67-127	5	30				

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1396385
Reported: 06/18/13 at 07:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	110	106	80-140	3	30				
Freon 113	119	109	87-158	9	30				
Hexachlorobutadiene	103	101	65-128	1	30				
Isopropylbenzene	112	108	81-133	4	30				
p-Isopropyltoluene	108	103	84-124	4	30				
Methyl Tertiary Butyl Ether	106	106	82-132	0	30				
4-Methyl-2-Pentanone	104	102	69-149	2	30				
Methylene Chloride	108	107	84-122	0	30				
n-Propylbenzene	105	102	79-131	3	30				
Styrene	110	106	63-151	4	30				
1,1,1,2-Tetrachloroethane	113	111	87-126	2	30				
1,1,2,2-Tetrachloroethane	95	94	75-131	1	30				
Tetrachloroethene	112	107	75-129	4	30				
Tetrahydrofuran	116	92	56-154	23	30				
Toluene	105	103	83-127	2	30				
1,2,3-Trichlorobenzene	96	97	73-125	1	30				
1,2,4-Trichlorobenzene	95	95	77-120	0	30				
1,1,1-Trichloroethane	131	125	85-140	5	30				
1,1,2-Trichloroethane	106	104	85-129	2	30				
Trichloroethene	114	111	85-131	3	30				
Trichlorofluoromethane	108	103	67-161	4	30				
1,2,3-Trichloropropane	105	103	76-120	1	30				
1,2,4-Trimethylbenzene	105	102	87-126	3	30				
1,3,5-Trimethylbenzene	105	103	89-129	2	30				
Vinyl Chloride	81	88	65-151	8	30				
Xylene (Total)	109	105	81-137	3	30				
Batch number: 131631848002	Sample number(s): 7089513-7089526 UNSPK: 7089515 BKG: 7089515								
Arsenic	103	103	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	102	103	78-118	1	20	0.0393	0.0396	1	20
Cadmium	101	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	101	101	81-118	0	20	7.52	7.57	1	20
Chromium	105	105	81-120	0	20	0.0016 J	N.D.	200* (1)	20
Lead	101	104	75-125	3	20	N.D.	N.D.	0 (1)	20
Magnesium	101	102	75-125	0	20	2.96	3.00	2	20
Nickel	104	104	86-115	1	20	0.0033 J	0.0029 J	13 (1)	20
Selenium	100	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	111	112	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	103	103	90-111	1	20	0.0025 J	0.0022 J	14 (1)	20
Batch number: 131635713002	Sample number(s): 7089513-7089526 UNSPK: 7089519 BKG: 7089519								
Mercury	224*	102	80-120	75*	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 25-ml purge

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1396385
Reported: 06/18/13 at 07:43 PM

Surrogate Quality Control

Batch number: I131641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7089513	111	109	96	101
7089514	111	108	96	99
7089515	111	110	96	101
7089516	112	111	96	100
7089517	111	111	97	100
7089518	112	109	96	99
7089519	113	112	97	101
7089520	112	108	96	99
7089521	112	110	95	99
7089522	112	106	96	99
7089523	111	106	95	96
7089524	112	108	96	98
7089525	113	109	96	99
7089526	113	111	94	102
7089527	110	107	97	101
Blank	108	107	97	99
LCS	107	101	99	104
MS	108	105	99	107
MSD	106	106	99	105
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13163WAI026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7089513	74	56*	91
7089514	84	46*	97
7089515	121*	95	113
7089516	92	80	92
7089517	77	74	102
7089518	92	84	102
7089519	91	76	96
7089520	86	86	86
7089521	83	81	96
7089522	77	85	99
7089523	65	64	86
7089524	87	77	89
7089525	84	67	88
7089526	68	68	101
Blank	99	103	103
LCS	99	109	109
LCSD	94	102	100
Limits:	64-120	62-141	58-134

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

ExxonMobil Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1396385 Sample # 7089513-27
Instructions on reverse side correspond with circled numbers.

Pg. 1 of 2

SCR#: ______

(1) Client Information

- Facility #/SID: Mayflower Pipeline Incident
- Site Address: Mayflower, AR
- ExxonMobil PM: Scott Bushroe
- Cost Center/AFE:
- Consultant/Office: ARCADIS US
- Consultant PM: Steve Barrick
- Consultant Phone #: 919-302-6799
- Sampler: J. Oliver / B. Lovgren

(4) Matrix: Sediment ☐, Potable ☐, Ground ☐, Surface ☒, NPDES ☐, Air ☐, Soil ☐, Water, Oil ☐

(5) Analyses Requested — Preservation Code: H | | N

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

(6) Remarks: Data Analysis Questions Lynd Mott ARCADIS

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Soil	Water	Oil	Total # of Containers	VOC 8260 B (H)	PAH 8270 SIM	RCRA Metals +Ni, Mg, Ca, V, Na (N)
WS-003 (surface) 061113	6/11/13	0700	X			X		6	X	X	X
WS-002 (surface) 06113		0730						6	X	X	X
WS-BKG-002 (surface) 061113		0750						6	X	X	X
WS-005 (surface) 061113		0815						6	X	X	X
WS-008 (surface) 061113		0850						6	X	X	X
WS-001 (surface) 061113		0920						6	X	X	X
WS-001 (0.5-1.0) 061113		0930						6	X	X	X
WS-004 (surface) 061113		0940						6	X	X	X
WS-004 (0.5-1.0) 061113		0950						6	X	X	X
WS-007 (surface) 061113		1000						6	X	X	X
WS-007 (0.5-1.0) 061113		1010						6	X	X	X
WS-006 (surface) 061113		1020						6	X	X	X

(7) Turnaround Time Requested (TAT) (please circle)
Standard | (5 day) | 4 day
72 hour | 48 hour | 24 hour

(8) Data Package (circle if required)
Type I - Full
Type VI (Raw Data)
NJ Reduced
Other ______

EDD (circle if required)
Locus EIM (default)
Other ______

(9)

Relinquished by	Date	Time	Received by	Date	Time
[signature] ARCADIS	6/11/13	1400			
Relinquished by Commercial Carrier: UPS ___ (FedEx) X Other ___			[signature] Deborah Nesll	6/12/13	0925

Temperature Upon Receipt 0.4-2.2 °C

Custody Seals Intact? (Yes) No

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7053 0413

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1396385 Sample # 7089513-27
Instructions on reverse side correspond with circled numbers.

SCR#: _____

1 Client Information

Facility #/SID: MayFlower Pipeline Incident
Site Address: MayFlower AR
ExxonMobil PM: Scott Bushroe
Cost Center/AFE:
Consultant/Office: ARCADIS US
Consultant PM: Steve Barrick
Consultant Phone #: 919-302-6899
Sampler: J. Oliver / B. Layton

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

6 Remarks

Data Analysis Questions
Cyndi Mott
ARCADIS

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil	Sediment	Water	Potable	Ground	NPDES	Surface	Air	Oil	Total # of Containers	5 Analyses Requested / Preservation Code: H		N							
															VOC 8260B	PAH 8270 SIM	RCRA Metals + N, Mg, V, Mo							
WS-006 (0.5-1.0) 061113	6/11/13	1030	X				X				X			6	1	X	X							
DUP-WS-39-061113	6/11/13	—	X				X				X			6	X	X	X							
WS-TB-20-061113	6/11/13	—	X				X							2	X									

7 Turnaround Time Requested (TAT) (please circle)

Standard (5 day) 4 day
72 hour 48 hour 24 hour

8 Data Package (circle if required)
Type I - Full
Type VI (Raw Data)
NJ Reduced
Other _____

EDD (circle if required)
Locus EIM (default)
Other _____

Relinquished by	Date	Time	Received by	Date	Time
ARCADIS	6/11/13	1400			
Relinquished by Commercial Carrier: UPS ____ (FedEx) X Other ____			Deloresa Nesbitt	6/12/13	0925

Temperature Upon Receipt 0.4-2.2 °C

Custody Seals Intact? (Yes) No

9

Rachel L. Kreamer A# 14739 Gr# 1396385 Samples 7089513-27

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Wednesday, June 12, 2013 2:51 PM
To: Rachel L. Kreamer
Cc: Lovgren, Brian; Oliver, Joshua
Subject: FW: Surface Waters received 6/12

Attachments: 20130612143901398.pdf

20130612143901398.pdf (895 KB)...

Rachel,

Yes, based on the field notes, it is acceptable to login the samples as WS-007 where the sample collection times were 1000 and 1010.

Thank you,
Lyndi Mott

-----Original Message-----
From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Wednesday, June 12, 2013 1:44 PM
To: Mott, Lyndi
Subject: Surface Waters received 6/12

Lyndi,

Please see the attached doc log for the surface waters. The two WS-007 samples were labeled WS-004. The collection times match the chain for the WS-007 samples so we called them 007. Please confirm that this will be acceptable.

Thanks
Rachel

-----Original Message-----
From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Wednesday, June 12, 2013 2:39 PM
To: Rachel L. Kreamer
Subject:

This E-mail was sent from "RNP367EC2" (MP 4001/LD140).

Scan Date: 06.12.2013 14:39:01 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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eurofins | Lancaster Laboratories

Environmental Sample Administration Receipt Documentation Log

1396385

Client/Project: XOM Mayflower

Date of Receipt: 6/12/13

Time of Receipt: 0925

Source Code: SO-1

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.2	TB	WI	Y	B	
2	↓	0.4	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: Ø

Paperwork Discrepancy/Unpacking Problems:

WS-007 (Surface) + (0.5-1.0) labeled WS-004: collection time corresponded to WS-007

Unpacker Signature/Emp#: DA Neslund 208 **Date/Time:** 6/12/13 0945

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.