ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 17, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/14/2013
Group Number: 1389633
SDG: PEH46
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-011(1.5-2.0)051313 Grab Surface Water	7054733
WS-011(5.0-5.5)051313 Grab Surface Water	7054734
WS-010(1.5-2.0)051313 Grab Surface Water	7054735
WS-012(1.5-2.0)051313 Grab Surface Water	7054736
WS-012(4.5-5.0)051313 Grab Surface Water	7054737
WS-014(1.5-2.0)051313 Grab Surface Water	7054738
WS-014(4.0-4.5)051313 Grab Surface Water	7054739
WS-018(1.0-1.5)051313 Grab Surface Water	7054740
WS-FB-32-051313 Grab Water	7054741
WS-003(Surface)051313 Grab Surface Water	7054742
WS-002(Surface)051313 Grab Surface Water	7054743
WS-BKG-002(Surface)051313 Grab Surface Water	7054744
WS-008(Surface)051313 Grab Surface Water	7054745
WS-008(Surface)MS051313 Grab Surface Water	7054746
WS-008(Surface)MSD051313 Grab Surface Water	7054747
WS-008(Surface)DUP051313 Grab Surface Water	7054748
WS-001(Surface)051313 Grab Surface Water	7054749
WS-001(0.5-1.0)051313 Grab Surface Water	7054750
WS-004(Surface)051313 Grab Surface Water	7054751
WS-004(0.5-1.0)051313 Grab Surface Water	7054752
WS-007(Surface)051313 Grab Surface Water	7054753
WS-007(0.5-1.0)051313 Grab Surface Water	7054754
WS-006(Surface)051313 Grab Surface Water	7054755
WS-006(0.5-1.0)051313 Grab Surface Water	7054756
WS-019(Surface)051313 Grab Surface Water	7054757
WS-TB41-051313 Water	7054758

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: Scott Bushroe
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1389633

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 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 8260B 25mL purge, GC/MS Volatiles

Batch #: H131342AA (Sample number(s): 7054733-7054740, 7054742-7054747, 7054749-7054758 UNSPK: 7054745)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: 1,2-Dichloroethane

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 1,2-Dichloroethane

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13134WAL026 (Sample number(s): 7054733-7054740, 7054742-7054747, 7054749-7054751, 7054754-7054756 UNSPK: 7054745)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7054749, 7054751, 7054754

Batch #: 13134WAM026 (Sample number(s): 7054757)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7054757

Batch #: 13136WAL026 (Sample number(s): 7054752-7054753)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7054752, 7054753

Sample #s: 7054757

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

Sample #s: 7054752, 7054753

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.

Sample #s: 7054749

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 #: 131341848001 (Sample number(s): 7054733-7054755 UNSPK: 7054745 BKG: 7054745)

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

Batch #: 131341848002 (Sample number(s): 7054756-7054757 UNSPK: 7054756 BKG: 7054756)

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

EPA 1664A, Wet Chemistry

Batch #: 13135807902A (Sample number(s): 7054733-7054734, 7054736-7054740, 7054742-7054751, 7054753, 7054755-7054756 UNSPK: 7054745 BKG: 7054745)

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

Sample Description: WS-011(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054733
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13111 SDG#: PEH46-01

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-011(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054733
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13111 SDG#: PEH46-01

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	0.052	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.1	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	0.0181	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.33	0.0640	0.200	1

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

Sample Description: WS-011(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054733
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13111 SDG#: PEH46-01

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**	
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	1.66	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 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	0.0045	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 18:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 18:50	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 02:39	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:29	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-011(5.0-5.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054734
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13112 SDG#: PEH46-02

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-011(5.0-5.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054734
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13112 SDG#: PEH46-02

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.		0.010	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	0.016	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	0.026	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	0.069		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	0.063		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.041	J	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.3		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	0.0180		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	3.38		0.0640	0.200	1

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

Sample Description: WS-011(5.0-5.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054734
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13112 SDG#: PEH46-02

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**	
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	1.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0019 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	0.00010 J	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 19:11	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 19:11	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 03:10	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-010(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054735
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-10 SDG#: PEH46-03

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-010(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054735
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-10 SDG#: PEH46-03

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.	0.010	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	0.064	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.9	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	0.0268	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.44	0.0640	0.200	1

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

Sample Description: WS-010(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054735
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-10 SDG#: PEH46-03

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**	
07051	Chromium	7440-47-3	0.0017 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.78	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0025 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	0.0019 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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 19:33	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 19:33	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 03:39	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13136807901A	05/16/2013 10:07	Yolunder Y Bunch	1

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

Sample Description: WS-012(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054736
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13121 SDG#: PEH46-04

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-012(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054736
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13121 SDG#: PEH46-04

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	0.050	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	0.055	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.4	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	0.0193	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.38	0.0640	0.200	1

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

Sample Description: WS-012(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054736
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13121 SDG#: PEH46-04

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**	
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	1.70	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0019 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	0.00086	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 19:54	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 19:54	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 04:09	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:49	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-012(4.5-5.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054737
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:40 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13122 SDG#: PEH46-05

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	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-012(4.5-5.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054737
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:40 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13122 SDG#: PEH46-05

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	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	0.068	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.5	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	0.0195	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.40	0.0640	0.200	1

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

Sample Description: WS-012(4.5-5.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054737
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:40 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13122 SDG#: PEH46-05

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**	
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	1.71	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 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	0.0015 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00033	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	2.1 J	1.4	5.0	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	H131342AA	05/14/2013 20:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 20:16	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 04:39	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-014(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054738
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13141 SDG#: PEH46-06

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-014(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054738
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13141 SDG#: PEH46-06

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	0.050	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	0.064	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.2	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	0.0145	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.35	0.0640	0.200	1

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

Sample Description: WS-014(1.5-2.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054738
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13141 SDG#: PEH46-06

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**	
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	1.67	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	0.000099 J	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.6 J	1.4	5.0	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	H131342AA	05/14/2013 20:38	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 20:38	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 05:09	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-014(4.0-4.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054739
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13142 SDG#: PEH46-07

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-014(4.0-4.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054739
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13142 SDG#: PEH46-07

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	0.050	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	0.041 J	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.4	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	0.0150	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.38	0.0640	0.200	1

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

Sample Description: WS-014(4.0-4.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054739
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13142 SDG#: PEH46-07

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**	
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	1.69	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	0.00052	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 20:59	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 20:59	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 08:28	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-018(1.0-1.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054740
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 12:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-18 SDG#: PEH46-08

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	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-018(1.0-1.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054740
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 12:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-18 SDG#: PEH46-08

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	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.2	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	0.0206	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.32	0.0640	0.200	1

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

Sample Description: WS-018(1.0-1.5)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054740
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 12:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-18 SDG#: PEH46-08

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**	
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	1.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 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	0.00034	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 21:20	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 21:20	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 08:57	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-FB-32-051313 Grab Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054741
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 12:45 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13F32 SDG#: PEH46-09FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	N.D.	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	0.00064 J	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	N.D.	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	N.D.	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	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
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:09	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054742
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 08:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-03 SDG#: PEH46-10

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	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054742
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 08:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-03 SDG#: PEH46-10

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	0.2	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	0.2	J	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	0.2	J	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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.052	1
08357	Anthracene	120-12-7	N.D.		0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.052	1
08357	Chrysene	218-01-9	N.D.		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.		0.010	0.052	1
08357	Fluorene	86-73-7	N.D.		0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	0.052	1
08357	Naphthalene	91-20-3	0.043	J	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.052	1
08357	Pyrene	129-00-0	N.D.		0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.7		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	0.0232		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	3.38		0.0640	0.200	1

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

Sample Description: WS-003(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054742
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 08:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-03 SDG#: PEH46-10

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**	
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	1.77	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0019 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	0.0019 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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	2.1 J	1.4	5.0	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	H131342AA	05/14/2013 21:42	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 21:42	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 09:27	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-002(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054743
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-02 SDG#: PEH46-11

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	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054743
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-02 SDG#: PEH46-11

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	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	0.044 J	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.4	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	0.0162	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.40	0.0640	0.200	1

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

Sample Description: WS-002(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054743
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13-02 SDG#: PEH46-11

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**	
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	1.67	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 22:03	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 22:03	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 09:58	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:17	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-BKG-002(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054744
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:45 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13BK2 SDG#: PEH46-12

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-BKG-002(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054744
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:45 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13BK2 SDG#: PEH46-12

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	0.039 J	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	37.6	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	0.0571	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.77	0.0640	0.200	1

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

Sample Description: WS-BKG-002(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054744
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 10:45 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13BK2 SDG#: PEH46-12

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**	
07051	Chromium	7440-47-3	0.0063 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0221	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.82	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0056 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	0.0110	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	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	H131342AA	05/14/2013 22:25	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 22:25	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 10:28	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:21	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-008(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054745
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13BKG

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	4.5	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	0.2	J	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054745
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13BKG

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	0.4	J	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	0.011	J	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	0.015	J	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	0.022	J	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	0.033	J	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	0.057		0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	85.4		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	0.0530		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	18.0		0.0640	0.200	1

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

Sample Description: WS-008(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054745
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13BKG

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**	
07051	Chromium	7440-47-3	0.0027 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0098 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	9.80	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0071 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	0.0038 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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 17:44	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 17:44	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/15/2013 23:11	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-008(Surface)MS051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054746
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13MS

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	42	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.1	0.1	0.5	1
02898	Benzene	71-43-2	5.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.0	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.3	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.9	0.1	0.5	1
02898	Bromoform	75-25-2	5.7	0.1	0.5	1
02898	Bromomethane	74-83-9	5.1	0.1	0.5	1
02898	2-Butanone	78-93-3	41	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.2	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.1	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.1	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.8	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.2	0.1	0.5	1
02898	Chloroethane	75-00-3	5.3	0.1	0.5	1
02898	Chloroform	67-66-3	6.1	0.1	0.5	1
02898	Chloromethane	74-87-3	5.2	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.9	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.9	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.3	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.4	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.0	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.5	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.0	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.0	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.0	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	5.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	6.0	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	7.1	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.8	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.6	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	7.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.5	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.1	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.5	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.9	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.7	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.4	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.4	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.4	0.1	0.5	1
02898	Freon 113	76-13-1	6.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.9	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.4	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.9	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	31	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.5	0.2	0.5	1

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

Sample Description: WS-008(Surface)MS051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054746
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13MS

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	5.1	0.1	0.5	1
02898	Styrene	100-42-5	5.2	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.4	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.6	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	22	2.0	5.0	1
02898	Toluene	108-88-3	5.4	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.1	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.2	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.1	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.8	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.2	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.2	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.3	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.0	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.052	1
08357	Anthracene	120-12-7	1.0	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.93	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.2	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.67	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	1.0	0.010	0.052	1
08357	Chrysene	218-01-9	0.92	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.72	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.052	1
08357	Fluorene	86-73-7	1.1	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.1	0.031	0.052	1
08357	Pyrene	129-00-0	0.99	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	105	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.155	0.0068	0.0200	1
07046	Barium	7440-39-3	2.10	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0498	0.00036	0.0050	1
01750	Calcium	7440-70-2	22.3	0.0640	0.200	1

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

Sample Description: WS-008(Surface)MS051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054746
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13MS

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**	
07051	Chromium	7440-47-3	0.207	0.0011	0.0150	1
07055	Lead	7439-92-1	0.161	0.0051	0.0150	1
01757	Magnesium	7439-95-4	11.9	0.0606	0.100	1
07061	Nickel	7440-02-0	0.525	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.152	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0520	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.533	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00090	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	28.5	1.4	5.0	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	H131342AA	05/14/2013 18:06	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 18:06	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/15/2013 23:40	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-008(Surface)MSD051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054747
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13MSD

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	54	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.0	0.1	0.5	1
02898	Benzene	71-43-2	5.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.9	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.4	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.8	0.1	0.5	1
02898	Bromoform	75-25-2	5.4	0.1	0.5	1
02898	Bromomethane	74-83-9	5.1	0.1	0.5	1
02898	2-Butanone	78-93-3	52	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.0	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.1	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.7	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.1	0.1	0.5	1
02898	Chloroethane	75-00-3	5.2	0.1	0.5	1
02898	Chloroform	67-66-3	6.0	0.1	0.5	1
02898	Chloromethane	74-87-3	5.0	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.0	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.9	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.7	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.3	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.9	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.6	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.9	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.0	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.9	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	5.1	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.8	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	6.9	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.8	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.5	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	7.1	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.4	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.0	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.4	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.9	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.7	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.3	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.2	0.1	0.5	1
02898	Freon 113	76-13-1	6.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.5	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.3	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.1	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	30	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.4	0.2	0.5	1

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

Sample Description: WS-008(Surface)MSD051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054747
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13MSD

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	5.1	0.1	0.5	1
02898	Styrene	100-42-5	5.1	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.3	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.6	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	28	2.0	5.0	1
02898	Toluene	108-88-3	5.3	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.0	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.1	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.5	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.1	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.6	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.1	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.1	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.2	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.0	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.052	1
08357	Anthracene	120-12-7	1.1	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.93	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.2	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.64	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.010	0.052	1
08357	Chrysene	218-01-9	0.94	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.71	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.052	1
08357	Fluorene	86-73-7	1.1	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.1	0.031	0.052	1
08357	Pyrene	129-00-0	0.99	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	105	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.155	0.0068	0.0200	1
07046	Barium	7440-39-3	2.10	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0498	0.00036	0.0050	1
01750	Calcium	7440-70-2	22.4	0.0640	0.200	1

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

Sample Description: WS-008(Surface)MSD051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054747
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13MSD

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**	
07051	Chromium	7440-47-3	0.205	0.0011	0.0150	1
07055	Lead	7439-92-1	0.160	0.0051	0.0150	1
01757	Magnesium	7439-95-4	11.9	0.0606	0.100	1
07061	Nickel	7440-02-0	0.521	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0518	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.531	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00090	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	27.7	1.4	5.0	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	H131342AA	05/14/2013 18:28	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 18:28	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 00:10	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-008(Surface)DUP051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054748
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 11:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13008 SDG#: PEH46-13DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	87.8	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	0.0556	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	18.6	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0028 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0080 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	10.0	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0073 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	0.0040 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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 17:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-001(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054749
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 13:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13011 SDG#: PEH46-14

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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054749
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 13:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13011 SDG#: PEH46-14

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	0.064	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 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	17.2	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	0.0425	0.00033	0.0050	1

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

Sample Description: WS-001(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054749
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 13:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13011 SDG#: PEH46-14

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**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.68	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0037 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0107 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.94	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0039 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	0.0054	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 22:47	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 22:47	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 10:58	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1

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

eurofins | Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: WS-001(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054749
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 13:20 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13011 SDG#: PEH46-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-001(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054750
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 13:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13012 SDG#: PEH46-15

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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054750
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 13:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13012 SDG#: PEH46-15

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	0.082	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	18.0	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	0.0663	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.86	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054750
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 13:30 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13012 SDG#: PEH46-15

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**	
07051	Chromium	7440-47-3	0.0042 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0152	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.04	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0049 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	0.0065	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 23:08	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 23:08	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 11:28	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:37	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-004(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054751
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 14:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13041 SDG#: PEH46-16

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	6.7	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054751
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 14:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13041 SDG#: PEH46-16

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	0.2 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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.012 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	0.012 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	0.062	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.020 J	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	48.5	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0079 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.320	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00041 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.74	0.0640	0.200	1

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

eurofins | Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: WS-004(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054751
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 14:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13041 SDG#: PEH46-16

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**	
07051	Chromium	7440-47-3	0.0491	0.0011	0.0150	1
07055	Lead	7439-92-1	0.147	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.09	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0379	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	0.0689	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/14/2013 23:30	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 23:30	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 00:40	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:41	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-004(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054752
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 14:10 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13042 SDG#: PEH46-17

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	9.0		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	1.7	J	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054752
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 14:10 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13042 SDG#: PEH46-17

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	4.3		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	0.036	J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.048	J	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.091		0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.038	J	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.029	J	0.011	0.053	1
08357	Chrysene	218-01-9	0.067		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	0.062		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	0.038	J	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.013	J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.021	J	0.011	0.053	1
08357	Naphthalene	91-20-3	0.050	J	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.032	J	0.032	0.053	1
08357	Pyrene	129-00-0	0.061		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	70.8		0.064	0.20	1

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

Sample Description: WS-004(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054752
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 14:10 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13042 SDG#: PEH46-17

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	0.0248	0.0068	0.0200	1
07046	Barium	7440-39-3	0.553	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0011 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	12.0	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0933	0.0011	0.0150	1
07055	Lead	7439-92-1	0.448	0.0051	0.0150	1
01757	Magnesium	7439-95-4	9.94	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0738	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0016 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.118	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	4.6 J	1.4	5.0	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	H131342AA	05/14/2013 23:52	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 23:52	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAL026	05/17/2013 08:27	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13136WAL026	05/17/2013 03:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:45	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:25	Damary Valentin	1

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

eurofins | Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: WS-004(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054752
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 14:10 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13042 SDG#: PEH46-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13136807901A	05/16/2013 10:07	Yolunder Y Bunch	1

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

Sample Description: WS-007(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054753
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13071 SDG#: PEH46-18

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	6.7	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054753
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13071 SDG#: PEH46-18

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	0.022	J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.034	J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.031	J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.13		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.027	J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.038	J	0.010	0.051	1
08357	Chrysene	218-01-9	0.18		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	0.15		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	0.036	J	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	0.033	J	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.041	J	0.031	0.051	1
08357	Pyrene	129-00-0	0.14		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	49.8		0.064	0.20	1

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

Sample Description: WS-007(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054753
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13071 SDG#: PEH46-18

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	0.0120 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.347	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.54	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0534	0.0011	0.0150	1
07055	Lead	7439-92-1	0.152	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.52	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0406	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	0.0749	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000084 J	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/15/2013 00:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/15/2013 00:13	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAL026	05/17/2013 08:57	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13136WAL026	05/17/2013 03:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:49	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:27	Damary Valentin	1

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

Sample Description: WS-007(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054753
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:00 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13071 SDG#: PEH46-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-007(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054754
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:10 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13072 SDG#: PEH46-19

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	5.4	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054754
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:10 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13072 SDG#: PEH46-19

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	10	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	0.031 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.058	0.010	0.051	1
08357	Anthracene	120-12-7	0.14	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.51	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.38	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.6	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.19	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.49	0.010	0.051	1
08357	Chrysene	218-01-9	1.3	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.051	0.010	0.051	1
08357	Fluoranthene	206-44-0	2.6	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	0.29	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	0.016 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.040 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.49	0.030	0.051	1
08357	Pyrene	129-00-0	1.9	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	68.3	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0168 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.563	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00094 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.66	0.0640	0.200	1

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

Sample Description: WS-007(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054754
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:10 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13072 SDG#: PEH46-19

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**	
07051	Chromium	7440-47-3	0.0770	0.0011	0.0150	1
07055	Lead	7439-92-1	0.231	0.0051	0.0150	1
01757	Magnesium	7439-95-4	10.7	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0630	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0015 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.113	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00012 J	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.9 J	1.4	5.0	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	H131342AA	05/15/2013 00:35	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/15/2013 00:35	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 02:10	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13136807901A	05/16/2013 10:07	Yolunder Y Bunch	1

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

Sample Description: WS-006(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054755
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:40 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13061 SDG#: PEH46-20

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	0.1	J	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054755
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:40 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13061 SDG#: PEH46-20

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	0.015 J	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	0.075	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
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.5	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	0.0351	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.78	0.0640	0.200	1

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

Sample Description: WS-006(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054755
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:40 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13061 SDG#: PEH46-20

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**	
07051	Chromium	7440-47-3	0.0027 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0109 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.96	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	0.0051	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	2.4 J	1.4	5.0	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	H131342AA	05/15/2013 00:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/15/2013 00:56	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 11:59	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256002	05/14/2013 22:27	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07046	Barium	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07055	Lead	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07066	Silver	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131341848001	05/14/2013 18:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	131345713004	05/15/2013 08:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848001	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713004	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-006(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054756
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:50 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13062 SDG#: PEH46-21

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	0.1	J	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)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054756
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:50 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13062 SDG#: PEH46-21

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	0.013	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	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	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	0.11		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.015	J	0.010	0.051	1
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	0.0564		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	3.90		0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054756
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 15:50 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13062 SDG#: PEH46-21

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**	
07051	Chromium	7440-47-3	0.0051 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0093 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.21	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0041 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	0.0085	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
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	H131342AA	05/15/2013 01:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/15/2013 01:18	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAL026	05/16/2013 12:29	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAL026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256001	05/14/2013 21:56	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131341848002	05/14/2013 17:38	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131345713005	05/15/2013 08:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848002	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713005	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13135807902A	05/15/2013 16:40	Michelle L Lalli	1

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

Sample Description: WS-019(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054757
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:15 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13019 SDG#: PEH46-22

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	5.5	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-019(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054757
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:15 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13019 SDG#: PEH46-22

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	9.2		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	0.1	J	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	0.054	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.054	1
08357	Anthracene	120-12-7	N.D.		0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	0.017	J	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	0.013	J	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.054	1
08357	Chrysene	218-01-9	0.016	J	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.054	1
08357	Fluoranthene	206-44-0	0.013	J	0.011	0.054	1
08357	Fluorene	86-73-7	0.014	J	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	0.015	J	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	0.021	J	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.		0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.		0.032	0.054	1
08357	Pyrene	129-00-0	0.027	J	0.011	0.054	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	86.8		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0231		0.0068	0.0200	1
07046	Barium	7440-39-3	0.914		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-019(Surface)051313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054757
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013 09:15 by TM

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13019 SDG#: PEH46-22

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	13.4	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0997	0.0011	0.0150	1
07055	Lead	7439-92-1	0.117	0.0051	0.0150	1
01757	Magnesium	7439-95-4	12.9	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0814	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.0106 J	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.151	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00021	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	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	H131342AA	05/15/2013 01:40	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/15/2013 01:40	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13134WAM026	05/16/2013 02:09	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13134WAM026	05/15/2013 10:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131346256001	05/14/2013 21:56	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131341848002	05/14/2013 18:04	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131345713005	05/15/2013 08:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131341848002	05/14/2013 11:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131345713005	05/14/2013 16:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13137807901A	05/17/2013 07:51	Yolunder Y Bunch	1

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

Sample Description: WS-TB41-051313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054758
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13T41 SDG#: PEH46-23TB*

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-TB41-051313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7054758
LLI Group # 1389633
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/13/2013

Submitted: 05/14/2013 09:25
Reported: 05/17/2013 14:47

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

13T41 SDG#: PEH46-23TB*

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	H131342AA	05/14/2013 17:22	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131342AA	05/14/2013 17:22	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1389633
Reported: 05/17/13 at 02:47 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: H131342AA	Sample number(s): 7054733-7054740,7054742-7054747,7054749-7054758								
Acetone	N.D.	3.0	5.0	ug/l	96		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	114		61-130		
Benzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	106		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	115		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	113		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	97		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	100		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	93		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	101		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	124		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	97		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	113		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	96		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	94		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	94		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	86		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	104		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	98		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	109		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	95		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	98		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	135*		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	134		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	116		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	106		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	109		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	89		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	104		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	104		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: 1389633
Reported: 05/17/13 at 02:47 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	98		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	95		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	116		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	123		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	105		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Styrene	N.D.	0.1	0.5	ug/l	98		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	96		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	85		65-131		
Toluene	N.D.	0.1	0.5	ug/l	93		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	97		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	99		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	121		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	98		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	121		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	97		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	96		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	94		80-120		
Batch number: 13134WAL026	Sample number(s): 7054733-7054740,7054742-7054747,7054749-7054751,7054754-7054756								
Acenaphthene	N.D.	0.010	0.050	ug/l	100		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	101		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	95		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	94		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	92		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	105		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	82		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	107		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	101		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	83		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	106		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	98		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	84		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	102		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	99		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	98		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	94		71-116		
Batch number: 13134WAM026	Sample number(s): 7054757								
Acenaphthene	N.D.	0.010	0.050	ug/l	100	101	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	106	106	72-113	0	30
Anthracene	N.D.	0.010	0.050	ug/l	97	97	70-117	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	103	107	75-115	3	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	91	96	72-120	5	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	104	111	74-130	6	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	91	101	63-121	11	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	102	109	74-118	7	30
Chrysene	N.D.	0.010	0.050	ug/l	99	105	75-112	6	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	83	100	66-122	19	30

*- 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: 1389633
Reported: 05/17/13 at 02:47 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	N.D.	0.010	0.050	ug/l	104	106	73-116	2	30
Fluorene	N.D.	0.010	0.050	ug/l	100	101	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	91	99	66-122	8	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106	108	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105	106	74-119	2	30
Naphthalene	N.D.	0.030	0.050	ug/l	101	103	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	100	101	72-109	0	30
Pyrene	N.D.	0.010	0.050	ug/l	104	106	71-116	2	30
Batch number: 13136WAL026	Sample number(s): 7054752-7054753								
Acenaphthene	N.D.	0.010	0.050	ug/l	104	103	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	106	105	72-113	1	30
Anthracene	N.D.	0.010	0.050	ug/l	108	109	70-117	1	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	106	106	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	102	102	72-120	0	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	105	111	74-130	6	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	107	107	63-121	0	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	108	101	74-118	6	30
Chrysene	N.D.	0.010	0.050	ug/l	105	103	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	110	108	66-122	2	30
Fluoranthene	N.D.	0.010	0.050	ug/l	107	108	73-116	1	30
Fluorene	N.D.	0.010	0.050	ug/l	101	99	74-115	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	103	104	66-122	1	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	108	108	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107	106	74-119	1	30
Naphthalene	N.D.	0.030	0.050	ug/l	104	104	67-118	1	30
Phenanthrene	N.D.	0.030	0.050	ug/l	103	104	72-109	1	30
Pyrene	N.D.	0.010	0.050	ug/l	103	101	71-116	1	30
Batch number: 131341848001	Sample number(s): 7054733-7054755								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	99		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	100		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	102		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	105		90-110		
Batch number: 131341848002	Sample number(s): 7054756-7054757								
Arsenic	N.D.	0.0068	0.0200	mg/l	96		90-113		
Barium	0.0012 J	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	100		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	99		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	99		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	101		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	98		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	95		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	95		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	101		90-110		
Batch number: 131345713004	Sample number(s): 7054733-7054755								

*- 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: 1389633
Reported: 05/17/13 at 02:47 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Mercury	N.D.	0.00007 0	0.00020	mg/l	91		80-120		
Batch number: 131345713005	Sample number(s): 7054756-7054757								
Mercury	N.D.	0.00007 0	0.00020	mg/l	94		80-120		
Batch number: 13135807902A	Sample number(s): 7054733-7054734,7054736-7054740,7054742-7054751,7054753,7054755-7054756								
HEM (oil & grease)	1.5 J	1.4	5.0	mg/l	91	87	78-114	5	16
Batch number: 13136807901A	Sample number(s): 7054735,7054752,7054754								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	78	88	78-114	11	16
Batch number: 13137807901A	Sample number(s): 7054757								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	93	90	78-114	3	16

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: H131342AA	Sample number(s): 7054733-7054740,7054742-7054747,7054749-7054758 UNSPK: 7054745								
Acetone	100	131	57-163	25	30				
Allyl Chloride	121	121	67-139	0	30				
Benzene	106	106	87-126	0	30				
Bromobenzene	99	98	80-123	1	30				
Bromochloromethane	106	107	82-125	1	30				
Bromodichloromethane	119	117	82-133	2	30				
Bromoform	113	109	60-138	4	30				
Bromomethane	103	102	41-145	1	30				
2-Butanone	110	138	63-146	22	30				
n-Butylbenzene	103	102	83-131	2	30				
sec-Butylbenzene	103	101	84-128	2	30				
tert-Butylbenzene	102	102	84-135	0	30				
Carbon Tetrachloride	136	135	81-148	1	30				
Chlorobenzene	104	102	78-133	2	30				
Chloroethane	105	105	70-139	1	30				
Chloroform	121	119	86-136	2	30				
Chloromethane	103	100	55-152	3	30				
2-Chlorotoluene	98	100	81-120	2	30				
4-Chlorotoluene	99	98	82-119	0	30				
1,2-Dibromo-3-chloropropane	87	115	43-143	28	30				
Dibromochloromethane	108	107	79-125	1	30				
1,2-Dibromoethane	99	99	84-127	1	30				
Dibromomethane	110	112	83-126	2	30				
1,2-Dichlorobenzene	101	98	83-117	3	30				
1,3-Dichlorobenzene	101	100	81-118	0	30				
1,4-Dichlorobenzene	100	97	79-120	3	30				
Dichlorodifluoromethane	105	101	28-136	4	30				
1,1-Dichloroethane	120	117	88-136	3	30				

*- 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: 1389633
Reported: 05/17/13 at 02:47 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
1,2-Dichloroethane	142*	138*	82-135	3	30				
1,1-Dichloroethene	117	116	83-150	0	30				
cis-1,2-Dichloroethene	106	107	82-129	1	30				
trans-1,2-Dichloroethene	112	111	88-127	1	30				
Dichlorofluoromethane	145	141	59-176	3	30				
1,2-Dichloropropane	110	109	91-126	1	30				
1,3-Dichloropropane	102	99	80-127	3	30				
2,2-Dichloropropane	130	129	80-134	1	30				
1,1-Dichloropropene	117	117	86-139	0	30				
cis-1,3-Dichloropropene	114	114	74-132	0	30				
trans-1,3-Dichloropropene	108	106	71-128	2	30				
Ethyl ether	87	87	67-127	1	30				
Ethylbenzene	107	105	80-140	2	30				
Freon 113	119	120	87-158	0	30				
Hexachlorobutadiene	119	111	65-128	7	30				
Isopropylbenzene	107	106	81-133	1	30				
p-Isopropyltoluene	105	103	84-124	2	30				
Methyl Tertiary Butyl Ether	119	115	82-132	3	30				
4-Methyl-2-Pentanone	123	121	69-149	1	30				
Methylene Chloride	111	108	84-122	2	30				
n-Propylbenzene	103	101	79-131	1	30				
Styrene	104	103	63-151	2	30				
1,1,1,2-Tetrachloroethane	109	106	87-126	2	30				
1,1,2,2-Tetrachloroethane	92	92	75-131	0	30				
Tetrachloroethene	112	111	75-129	1	30				
Tetrahydrofuran	86	110	56-154	25	30				
Toluene	101	99	83-127	2	30				
1,2,3-Trichlorobenzene	102	99	73-125	3	30				
1,2,4-Trichlorobenzene	104	101	77-120	3	30				
1,1,1-Trichloroethane	131	130	85-140	1	30				
1,1,2-Trichloroethane	103	102	85-129	1	30				
Trichloroethene	115	114	85-131	0	30				
Trichlorofluoromethane	136	132	67-161	2	30				
1,2,3-Trichloropropane	102	102	76-120	0	30				
1,2,4-Trimethylbenzene	104	102	87-126	2	30				
1,3,5-Trimethylbenzene	104	102	89-129	1	30				
Vinyl Chloride	106	105	65-151	1	30				
Xylene (Total)	102	101	81-137	1	30				
Batch number: 13134WAL026	Sample number(s): 7054733-7054740,7054742-7054747,7054749-7054751,7054754-7054756 UNSPK: 7054745								
Acenaphthene	99	101	59-127	3	30				
Acenaphthylene	100	104	33-146	4	30				
Anthracene	100	103	69-119	3	30				
Benzo(a)anthracene	97	100	67-124	3	30				
Benzo(a)pyrene	90	90	64-123	1	30				
Benzo(b)fluoranthene	110	111	61-133	1	30				
Benzo(g,h,i)perylene	65	62	36-138	4	30				
Benzo(k)fluoranthene	101	102	59-128	1	30				
Chrysene	87	89	62-118	2	30				
Dibenz(a,h)anthracene	70	69	32-141	2	30				
Fluoranthene	107	107	65-123	0	30				

*- 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: 1389633
Reported: 05/17/13 at 02:47 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
Fluorene	102	105	69-124	3	30				
Indeno(1,2,3-cd)pyrene	72	68	29-143	5	30				
1-Methylnaphthalene	103	106	67-117	2	30				
2-Methylnaphthalene	102	104	71-126	2	30				
Naphthalene	102	104	58-131	2	30				
Phenanthrene	102	104	67-117	1	30				
Pyrene	90	91	59-125	1	30				
Batch number: 131341848001	Sample number(s): 7054733-7054755 UNSPK: 7054745 BKG: 7054745								
Arsenic	104	103	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	0	20	0.0530	0.0556	5	20
Cadmium	100	100	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	107 (2)	108 (2)	81-118	0	20	18.0	18.6	3	20
Chromium	102	101	81-120	1	20	0.0027 J	0.0028 J	4 (1)	20
Lead	101	100	75-125	1	20	0.0098 J	0.0080 J	21* (1)	20
Magnesium	104 (2)	107 (2)	75-125	1	20	9.80	10.0	2	20
Nickel	104	103	86-115	1	20	0.0071 J	0.0073 J	3 (1)	20
Selenium	101	99	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	104	104	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	106	106	90-111	0	20	0.0038 J	0.0040 J	4 (1)	20
Batch number: 131341848002	Sample number(s): 7054756-7054757 UNSPK: 7054756 BKG: 7054756								
Arsenic	102	101	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	103	103	78-118	1	20	0.0564	0.0555	1	20
Cadmium	100	100	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	101	103	81-118	1	20	3.90	3.96	1	20
Chromium	101	101	81-120	1	20	0.0051 J	0.0048 J	6 (1)	20
Lead	100	100	75-125	0	20	0.0093 J	0.0058 J	47* (1)	20
Magnesium	98	102	75-125	2	20	2.21	2.20	1	20
Nickel	104	105	86-115	0	20	0.0041 J	0.0043 J	5 (1)	20
Selenium	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	96	95	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	104	103	90-111	1	20	0.0085	0.0086	1 (1)	20
Batch number: 131345713004	Sample number(s): 7054733-7054755 UNSPK: 7054745 BKG: 7054745								
Mercury	90	90	80-120	0	20	N.D.	N.D.	0 (1)	20
Batch number: 131345713005	Sample number(s): 7054756-7054757 UNSPK: 7054757 BKG: 7054757								
Mercury	101	102	80-120	0	20	0.00021	0.00021	4 (1)	20
Batch number: 13135807902A	Sample number(s): 7054733-7054734,7054736-7054740,7054742-7054751,7054753,7054755-7054756 UNSPK: 7054745 BKG: 7054745								
HEM (oil & grease)	70*	65*	78-114	3	29	N.D.	N.D.	0 (1)	18
Batch number: 13136807901A	Sample number(s): 7054735,7054752,7054754 UNSPK: P052795								
HEM (oil & grease)	83		78-114						
Batch number: 13137807901A	Sample number(s): 7054757 UNSPK: P052262								
HEM (oil & grease)	91		78-114						

*- 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: 1389633
Reported: 05/17/13 at 02:47 PM

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: NHDES VOCs 25ml purge
Batch number: H131342AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7054733	108	102	96	103
7054734	109	102	96	103
7054735	108	101	97	103
7054736	109	101	97	103
7054737	110	104	98	104
7054738	109	103	96	102
7054739	109	102	96	102
7054740	108	103	97	103
7054742	110	102	96	102
7054743	109	102	96	102
7054744	109	101	96	101
7054745	107	101	97	103
7054746	107	100	97	105
7054747	108	102	96	104
7054749	109	99	97	102
7054750	109	102	97	101
7054751	109	100	96	101
7054752	110	101	97	102
7054753	110	102	96	102
7054754	109	102	96	103
7054755	109	102	96	102
7054756	109	103	96	101
7054757	109	101	95	102
7054758	109	106	95	102
Blank	109	102	97	102
LCS	108	104	97	103
MS	107	100	97	105
MSD	108	102	96	104
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13134WAL026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7054733	104	84	88
7054734	106	89	92
7054735	100	83	87
7054736	101	83	84
7054737	100	83	87
7054738	107	93	89
7054739	96	87	91
7054740	100	87	90
7054742	99	87	92
7054743	103	93	90
7054744	91	88	84
7054745	104	90	91

*- 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: 1389633
Reported: 05/17/13 at 02:47 PM

Surrogate Quality Control

7054746	107	106	95
7054747	109	107	97
7054749	71	38*	80
7054750	93	79	88
7054751	57*	37*	65
7054754	52*	32*	70
7054755	83	67	80
7054756	90	72	85
Blank	104	107	91
LCS	105	106	96
MS	107	106	95
MSD	109	107	97
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM
Batch number: 13134WAM026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7054757	19*	14*	33*
Blank	98	107	94
LCS	99	101	97
LCSD	103	114	101
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM
Batch number: 13136WAL026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7054752	65	56*	81
7054753	64	52*	77
Blank	108	115	110
LCS	104	112	106
LCSD	104	111	104
Limits:	64-120	62-141	58-134

*- 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.

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1389633 Sample # 705473 3-58

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

Pg. 1 of 2

SCR#: _____

1 Client Information

Facility #/SID: MayFlower Pipe Incident

Site Address: MayFlower, AR

ExxonMobil PM: Scott Bushroe

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Barrick

Consultant Phone #: 919-302-6799

Sampler: 859-559-5680 Tyler Milburn/Hans Von Aller/Dave Drost

4 Matrix

Sediment ☐ Soil ☐

Ground ☐ Potable ☐ Surface ☑ NPDES ☐ Water ☑

Air ☐ Oil ☐

5 Analyses Requested

Preservation Code

	2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	H 8260B VOCs	N PAH 8270 SIM	H RCRA Metals + Ni, V, Ca, Mg nondiss	N Oil & Grease (HEM)
1	WS-011(1.5-2.0)051313	5/13/13	0920	✓		8	✓	✓	✓	✓
2	WS-011(5.0-5.5)051313		0930	✓		8	✓	✓	✓	✓
3	WS-010(1.5-2.0)051313		1000	✓		8	✓	✓	✓	✓
4	WS-012(1.5-2.0)051313		1030	✓		8	✓	✓	✓	✓
5	WS-012(4.5-5.0)051313		1040	✓		8	✓	✓	✓	✓
6	WS-014(1.5-2.0)051313		1120	✓		8	✓	✓	✓	✓
7	WS-014(4.0-4.5)051313		1130	✓		8	✓	✓	✓	✓
8	WS-018(1.0-1.5)051313		1230	✓		8	✓	✓	✓	✓
9	WS-FB-32-051313		1245	✓		8	✓	✓	✓	✓
10	WS-003(surface)051313		0830	✓		8	✓	✓	✓	✓
11	WS-002(surface)051313		~~0915~~ 1000	✓		8	✓	✓	✓	✓
12	WS-BKG-002(surface)051313		1045	✓		8	✓	✓	✓	✓

Preservation Codes

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

6 Remarks

Data Analysis Questions: Lyndi Mott/ARCADIS

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 _____

	Date	Time		Date	Time
Relinquished by			Received by		
Relinquished by			Received by		
Relinquished by			Received by		
Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other _____			Received by	5.14.13	925

Temperature Upon Receipt 0.5-3.4 °C

Custody Seals Intact? Yes No

9

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7053.01

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1389633 Sample # 7054733-58

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility #/SID: MayFlower Pipe Incident

Site Address: MayFlower, AR

ExxonMobil PM: Scott Bushroe

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Barrick

Consultant Phone #: 919-302-6799

Sampler: Tyler Milburn / Hans Van Aller / Dave Drost

SCR#:

4 Matrix: Soil ☐ Sediment ☐ Water ☑ Surface ☑ Ground ☐ Potable ☐ NPDES ☐ Oil ☐ Air ☐

3 Grab / Composite

5 Analyses Requested — Preservation Code

2 Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	8260B VOC (H)	PAH 8270 SIM (H)	RCRA Metals + Ni, V, Ca, Mg (N)	Oil & Grease (HEM) (H)	Remarks
WS-008 (surface) 051313	5/13/13	1120	✓		24	✓	✓	✓	✓	MS/MSD
WS-001 (surface) 051313		1320	✓		8	✓	✓	✓	✓	
WS-001 (0.5-1.0) 051313		1330	✓		8	✓	✓	✓	✓	
WS-004 (surface) 051313		1400	✓		8	✓	✓	✓	✓	
WS-004 (0.5-1.0) 051313		1410	✓	✓	8	✓	✓	✓	✓	
WS-007 (surface) 051313		1500	✓		8	✓	✓	✓	✓	
WS-007 (0.5-1.0) 051313		1510	✓		8	✓	✓	✓	✓	
WS-006 (surface) 051313		1540	✓		8	✓	✓	✓	✓	
WS-006 (0.5-1.0) 051313		1550	✓		8	✓	✓	✓	✓	
WS-019 (surface) 051313		0915	✓		8	✓	✓	✓	✓	
WS-TB41-051313	↓		✓		2	✓				

Preservation Codes

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

6 Remarks

Data Analysis Questions: Lyndi Mott / ARCADIS

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
Relinquished by Commercial Carrier: UPS ___ FedEx ✓ Other ___			Received by	Date 5.14.13	Time 925

9

Temperature Upon Receipt 0.5-3.4 °C

Custody Seals Intact? Yes No

14739 1389633 7054733-58

Jill M. Parker

From: Van Aller, Hans [Hans.VanAller@arcadis-us.com]
Sent: Tuesday, May 14, 2013 6:41 AM
To: Mott, Lyndi; Kathy Klinefelter; SA Env Entry; Rachel L. Kreamer; Jill M. Parker
Cc: Molina, Joe; Lipka, Shelby; Milburn, Tyler; Capria, Dennis; Barrick, Stephen
Subject: RE: Mayflower CoCs Surface water sampling 051313
Attachments: signed coc 5-13-13 1of 2.jpg; signed coc 5-13-13 2of 2.jpg

Hello
Attached are the copies of the signed CoCs.
Thank you
Hans

From: Mott, Lyndi
Sent: Monday, May 13, 2013 8:07 PM
To: KKlinefelter@lancasterlabs.com; SA Env Entry; Rachel L. Kreamer; Jill M. Parker
Cc: Molina, Joe; Lipka, Shelby; Milburn, Tyler; Van Aller, Hans; Capria, Dennis; Barrick, Stephen
Subject: RE: Mayflower CoCs Surface water sampling 051313

Kathy,

Please note that the COC that was sent with the samples was inadvertently not signed by the sampler before shipping. I will have the sampler sign our copy tomorrow and send you a copy for your records.

Thank you,
Lyndi Mott

From: Van Aller, Hans
Sent: Monday, May 13, 2013 7:35 PM
To: KKlinefelter@lancasterlabs.com; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Suer, Jake; Rachel L. Kreamer
Cc: Molina, Joe; Lipka, Shelby; Price, Richard; Milburn, Tyler
Subject: Mayflower CoCs Surface water sampling 051313

Hello All
Attached are the CoCs from today's surface water sampling activities.

Thanks,

Hans H. van Aller IV | Field Tech 3 | Hans.VanAller@arcadis-us.com
ARCADIS U.S., Inc. | 630 Plaza Drive, Suite 100 | Highlands Ranch, CO 80129
T. 720.344.3500 | M.720.635.0173| F. 720.344.3535
www.arcadis-us.com
ARCADIS, Imagine the result
Please consider the environment before printing this email.

14739 1389633 7054733-58

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1389633 For Lancaster Laboratories use only Sample # 7054733-58

Instructions on reverse side correspond with circled numbers.

Pg. 2 of 2

1 Client Information

Facility #/SID: Mayflower Pipe Incident

Site Address: Mayflower AR

ExxonMobil PM: Scott Buchroeder

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Barrick

Consultant Phone #: 919-302-6799

Sampler: Tyler Milburn / Hans Van Aller / Dave Drost

4 Matrix

Soil ☐ Sediment ☐ Water ☐ Potable ☐ Ground ☐ NPDES ☑ Surface ☐ Oil ☐ Air ☐

3 Grab / Composite

2 Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | **5 Analyses Requested** Preservation Code: 8260B VOCs (H) | PAH 8270 SIM (N) | RCRA Metals - Pb, V, Li, Mo (N) | Oil & Grease (HEM) (H)

Sample Identification	Date	Time	Grab	Composite	Total # of Containers	8260B VOCs (H)	PAH 8270 SIM (N)	RCRA Metals - Pb, V, Li, Mo (N)	Oil & Grease (HEM) (H)	Remarks
WS-008(surface)051313	5/13/13	1120	✓		24	✓	✓	✓	✓	MS/MSD
WS-001(surface)051313		1320	✓		8	✓	✓	✓	✓	
WS-001(0.5-1.0)051313		1330	✓		8	✓	✓	✓	✓	
WS-004(surface)051313		1400	✓		8	✓	✓	✓	✓	
WS-004(0.5-1.0)051313		1410	✓		8	✓	✓	✓	✓	
WS-007(surface)051313		1500	✓		8	✓	✓	✓	✓	
WS-007(0.5-1.0)051313		1510	✓		8	✓	✓	✓	✓	
WS-006(surface)051313		1540	✓		8	✓	✓	✓	✓	
WS-006(0.5-1.0)051313		1550	✓		8	✓	✓	✓	✓	
WS-019(surface)051313		0915	✓		8	✓	✓	✓	✓	
WS-TB#1-051313	↓		✓		2	✓				

SCR#:

Preservation Codes

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

6 Remarks

Data Analysis Questions Lyndi Nott / ARCADIS

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
T Van Aller	5/13/13	1730			
Relinquished by Commercial Carrier: UPS ___ FedEx ✓ Other ___					

Temperature Upon Receipt ___ °C

Custody Seals Intact? Yes No

9

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7053.01

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1389633 Sample # 7054733-58 (For Lancaster Laboratories use only)

Instructions on reverse side correspond with circled numbers.

Pg. 1 of 2

1 Client Information

Facility #/SID: MayFlower Pipe Incident

Site Address: MayFlower AR

ExxonMobil PM: Scott Buchroe | Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Berrick | Consultant Phone #: 919-302-6799

Sampler: 859-559-3080 Tyler McBurn/Hans Von Aller/Dave Drost

SCR#:

Preservation Codes

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

6 Remarks

Data Analysis Questions Lynn Mott/ARCADIS

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Sediment	Potable Ground Water	NPDES Surface Water	Oil	Air	Total # of Containers	5 Analyses Requested: Preservation Code H	8260B VOCs	PAH 8270 SIM	RCRA Metals + Ni, V, Co, Mo	O&G (HEM)						
WS-011(1.5-2.0)051313	5/13/13	1120	✓				✓				8		✓	✓	✓	✓						
WS-011(5.0-5.5)051313		0930	✓				✓				8		✓	✓	✓	✓						
WS-010(1.5-2.0)051313		1000	✓				✓				8		✓	✓	✓	✓						
WS-012(1.5-2.0)051313		1030	✓				✓				8		✓	✓	✓	✓						
WS-012(4.5-5.0)051313		1040	✓				✓				8		✓	✓	✓	✓						
WS-014(1.5-2.0)051313		1120	✓				✓				8		✓	✓	✓	✓						
WS-014(4.0-4.5)051313		1130	✓				✓				8		✓	✓	✓	✓						
WS-018(1.0-1.5)051313		1230	✓				✓				8		✓	✓	✓	✓						
WS-FB-32-051313		1245	✓				✓				8		✓	✓	✓	✓						
WS-003(surface)051313		0830	✓				✓				8		✓	✓	✓	✓						
WS-002(surface)051313		~~0845~~ 1045	✓				✓				8		✓	✓	✓	✓						
WS-BKG-002(surface)051313	↓	1045	✓				✓				8		✓	✓	✓	✓						

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
[signature]	5/13/13	1730			
Relinquished by Commercial Carrier: UPS ___ FedEx ✓ Other ___					

Temperature Upon Receipt ___ °C

Custody Seals Intact? Yes No

9

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7053.01

Jill M. Parker

From: Jill M. Parker
Sent: Tuesday, May 14, 2013 3:39 PM
To: 'Mott, Lyndi'
Cc: Kathy Klinefelter
Subject: Surface Water FB analysis from today's samples
Attachments: 20130514152222337.pdf

Hello Lyndi,

I have attached the chain of custody for the surface water samples submitted today. Sample ID WS-FB-32-051313 is marked on the COC for all analyses but only a metals bottle was received for this sample. We will be unable to analyze this sample for VOCs, PAHs or Oil & Grease as requested on the COC.

Thank you,

Jill Parker
Senior Project Manager, Env. Client Services

Eurofins Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-556-7262

Website: www.LancasterLabsEnv.com

eurofins | Lancaster Laboratories

Environmental Sample Administration Receipt Documentation Log

1389633

Client/Project: Exxon Mobil

Date of Receipt: 5.14.13

Time of Receipt: 925

Source Code: 50-1

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	2037	2.9	TB	WI	Y	B	
2	↓	1.1	↓	↓	↓	↓	
3	↓	0.9	↓	↓	↓	↓	
4	1396	3.4	ST	↓	↓	↓	
5	2037	0.5	TB	↓	↓	↓	
6	↓	0.6	↓	↓	↓	↓	

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

WS FB-32 Rec 1 metals bottle only

Unpacker Signature/Emp#: [signature] 2299 **Date/Time:** 5.14.13 1010

Issued by Dept. 6042 Management

2174.06

eurofins | Lancaster Laboratories

Environmental Sample Administration Receipt Documentation Log

1389633

Client/Project: Exxon Mobil

Date of Receipt: 5.14.13

Time of Receipt: 925

Source Code: 50-1

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
17	2939	0.7	TB	WI	Y	B	
18	↓	0.5	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [signature] 2299 **Date/Time:** 5.14.13 1010

Issued by Dept. 6042 Management

2174.06

eurofins | Lancaster Laboratories

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.