

ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 23, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/20/2013

Group Number: 1391095

SDG: PEH69

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(Surface)051913 Grab Surface Water	7062589
WS-002(Surface)051913 Grab Surface Water	7062590
WS-BKG-002(Surface)051913 Grab Surface Water	7062591
WS-005(Surface)051913 Grab Surface Water	7062592
WS-008(Surface)051913 Grab Surface Water	7062593
WS-008(Surface)051913 MS Grab Surface Water	7062594
WS-008(Surface)051913 MSD Grab Surface Water	7062595
WS-008(Surface)051913 DUP Grab Surface Water	7062596
WS-001(Surface)051913 Grab Surface Water	7062597
WS-001(0.5-1.0)051913 Grab Surface Water	7062598
WS-004(Surface)051913 Grab Surface Water	7062599
WS-004(0.5-1.0)051913 Grab Surface Water	7062600
WS-007(Surface)051913 Grab Surface Water	7062601
WS-007(0.5-1.0)051913 Grab Surface Water	7062602
WS-006(Surface)051913 Grab Surface Water	7062603
WS-006(0.5-1.0)051913 Grab Surface Water	7062604
WS-TB-47-051913 Water	7062605

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

ELECTRONIC ARCADIS

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Attn: Stephen Barrick

ELECTRONIC ARCADIS

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Attn: Lyndi Mott

ELECTRONIC ExxonMobil

COPY TO

Attn: Scott Bushroe

ELECTRONIC ExxonMobil
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ELECTRONIC ARCADIS
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Attn: Michael J. Firth

Attn: Emily Leamer

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1391095

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 8270C SIM, GC/MS Semivolatiles**

Batch #: 13141WAA026 (Sample number(s): 7062589-7062595, 7062597-7062600, 7062602-7062604 UNSPK: 7062593)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7062599, 7062600, 7062602

Batch #: 13142WAB026 (Sample number(s): 7062601)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD exceeded the acceptance window indicating a positive bias: 1-Methylnaphthalene, Fluoranthene, Benzo(a)anthracene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7062601

Sample #s: 7062601

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.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted and the QC is compliant. However, the sample surrogate recoveries were outside of QC limits in the re-extraction. Similar results were obtained in both trials.

SW-846 6010B, Metals

Batch #: 131401848001 (Sample number(s): 7062589-7062604 UNSPK: 7062593 BKG: 7062593)

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

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

Sample Description: WS-003(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062589
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:00 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

3-SRF SDG#: PEH69-01

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	ug/l	ug/l	ug/l	
	purge					
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)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062589
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:00 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

3-SRF SDG#: PEH69-01

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	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	0.051	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	16.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0151	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.59	0.0640	0.200	1

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

Sample Description: WS-003(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062589
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

3-SRF SDG#: PEH69-01

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	1.77	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/20/2013 22:34	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/20/2013 22:34	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 11:13	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 19:33	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062590
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:30 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

2-SRF SDG#: PEH69-02

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	ug/l	ug/l	ug/l	
	purge					
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)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062590
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:30 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

2-SRF SDG#: PEH69-02

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	16.0	0.064	0.20	1
	SW-846 6010B	mg/l	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	3.53	0.0640	0.200	1

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

Sample Description: WS-002(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062590
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

2-SRF SDG#: PEH69-02

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	1.73	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0014 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/20/2013 22:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/20/2013 22:56	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 11:41	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 19:45	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-BKG-002(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062591
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:50 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

BK2SR SDG#: PEH69-03

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	ug/l	ug/l	ug/l	
	purge					
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)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062591
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:50 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

BK2SR SDG#: PEH69-03

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	ug/l	ug/l	ug/l	
	purge					
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	0.052	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	N.D.	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	36.8	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	0.0440	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.75	0.0640	0.200	1

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

Sample Description: WS-BKG-002(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062591
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 08:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

BK2SR SDG#: PEH69-03

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	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.62	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0045 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0013 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0039 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/20/2013 23:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/20/2013 23:18	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 12:08	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 19:49	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 07:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062592
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:15 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

5-SRF SDG#: PEH69-04

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-005(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062592
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:15 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

5-SRF SDG#: PEH69-04

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	ug/l	ug/l	ug/l	
	purge					
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	17.6	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	0.0142	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.02	0.0640	0.200	1

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

Sample Description: WS-005(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062592
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:15 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

5-SRF SDG#: PEH69-04

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	1.84	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0012 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/20/2013 23:41	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/20/2013 23:41	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 12:35	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 19:53	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 07:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062593
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

8-SRF SDG#: PEH69-05BKG

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.0 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.3 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)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062593
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

8-SRF SDG#: PEH69-05BKG

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	ug/l	ug/l	ug/l	
	purge					
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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	0.013 J	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	0.020 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	0.012 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	0.057	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	0.028 J	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	74.0	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	0.0544	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	16.4	0.0640	0.200	1

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

Sample Description: WS-008(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062593
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

8-SRF SDG#: PEH69-05BKG

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	0.0024 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	8.02	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0091 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	0.0035 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 00:03	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 00:03	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/21/2013 21:44	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 19:06	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)051913 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062594
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

8-SRF SDG#: PEH69-05MS

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	49	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.5	0.1	0.5	1
02898	Benzene	71-43-2	6.1	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.5	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.6	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.5	0.1	0.5	1
02898	Bromoform	75-25-2	5.6	0.1	0.5	1
02898	Bromomethane	74-83-9	5.9	0.1	0.5	1
02898	2-Butanone	78-93-3	44	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.8	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.9	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.9	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.4	0.1	0.5	1
02898	Chlorobenzene	108-90-7	6.0	0.1	0.5	1
02898	Chloroethane	75-00-3	5.9	0.1	0.5	1
02898	Chloroform	67-66-3	5.9	0.1	0.5	1
02898	Chloromethane	74-87-3	5.5	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.8	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	6.0	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.7	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.3	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.5	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.5	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.7	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.6	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	5.0	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.6	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.3	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.1	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.8	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.9	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.4	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.1	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.1	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.3	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	6.0	0.1	0.5	1
02898	Freon 113	76-13-1	6.4	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.9	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.9	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.8	0.2	0.5	1

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

Sample Description: WS-008(Surface)051913 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062594
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

8-SRF SDG#: PEH69-05MS

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.8	0.1	0.5	1
02898	Styrene	100-42-5	5.9	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.1	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	30	2.0	5.0	1
02898	Toluene	108-88-3	6.1	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.8	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.0	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.1	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.6	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.1	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	5.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.8	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	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	0.011	0.053	1
08357	Acenaphthylene	208-96-8	1.1	0.011	0.053	1
08357	Anthracene	120-12-7	0.99	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	1.2	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.87	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	1.2	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.83	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.011	0.053	1
08357	Chrysene	218-01-9	0.99	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.87	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.90	0.011	0.053	1
08357	Fluorene	86-73-7	1.1	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.011	0.053	1
08357	Naphthalene	91-20-3	1.1	0.032	0.053	1
08357	Phenanthrene	85-01-8	1.1	0.032	0.053	1
08357	Pyrene	129-00-0	0.96	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	95.5	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	2.07	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0492	0.00036	0.0050	1
01750	Calcium	7440-70-2	21.2	0.0640	0.200	1

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

Sample Description: WS-008(Surface)051913 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062594
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

8-SRF SDG#: PEH69-05MS

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	0.201	0.0011	0.0150	1
07055	Lead	7439-92-1	0.148	0.0051	0.0150	1
01757	Magnesium	7439-95-4	10.4	0.0606	0.100	1
07061	Nickel	7440-02-0	0.515	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.146	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0458	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.517	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00087	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 00:26	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 00:26	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/21/2013 22:11	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	2	131401848001	05/20/2013 19:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)051913 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062595
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

8-SRF SDG#: PEH69-05MSD

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	55	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.6	0.1	0.5	1
02898	Benzene	71-43-2	6.1	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.4	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.7	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.6	0.1	0.5	1
02898	Bromoform	75-25-2	5.6	0.1	0.5	1
02898	Bromomethane	74-83-9	5.7	0.1	0.5	1
02898	2-Butanone	78-93-3	50	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.8	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.9	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.9	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.4	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.9	0.1	0.5	1
02898	Chloroethane	75-00-3	5.8	0.1	0.5	1
02898	Chloroform	67-66-3	5.9	0.1	0.5	1
02898	Chloromethane	74-87-3	5.5	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.7	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	6.8	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.7	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.3	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.5	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.5	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.7	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.5	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.9	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	5.6	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.4	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.1	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.8	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.9	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.5	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.2	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.1	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.4	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.4	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.9	0.1	0.5	1
02898	Freon 113	76-13-1	6.4	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.6	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	6.0	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.9	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.0	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	25	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.9	0.2	0.5	1

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

Sample Description: WS-008(Surface)051913 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062595
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

8-SRF SDG#: PEH69-05MSD

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.8	0.1	0.5	1
02898	Styrene	100-42-5	5.9	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.0	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	32	2.0	5.0	1
02898	Toluene	108-88-3	6.0	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	6.2	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.5	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.0	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.8	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.052	1
08357	Anthracene	120-12-7	1.0	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.2	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.80	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.98	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.98	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	0.94	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	1.0	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	1.2	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	94.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.157	0.0068	0.0200	1
07046	Barium	7440-39-3	2.09	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0491	0.00036	0.0050	1
01750	Calcium	7440-70-2	20.9	0.0640	0.200	1

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

Sample Description: WS-008(Surface)051913 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062595
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

8-SRF SDG#: PEH69-05MSD

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	0.203	0.0011	0.0150	1
07055	Lead	7439-92-1	0.153	0.0051	0.0150	1
01757	Magnesium	7439-95-4	10.3	0.0606	0.100	1
07061	Nickel	7440-02-0	0.520	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.140	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0464	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.525	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00084	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 00:48	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 00:48	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 09:17	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 19:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)051913 DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062596
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 09:45 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

8-SRF SDG#: PEH69-05DUP

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 CaCO ₃	471-34-1	77.7	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	0.0579	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	17.2	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0023 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	8.43	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0086 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0013 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0035 J	0.0013	0.0050	1
SW-846 7470A			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	2	131401848001	05/20/2013 19:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062597
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:00 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

1-SRF SDG#: PEH69-06

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	ug/l	ug/l	ug/l	
	purge					
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)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062597
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:00 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

1-SRF SDG#: PEH69-06

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	ug/l	ug/l	ug/l	
	purge					
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	19.0	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	0.0404	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.22	0.0640	0.200	1

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

Sample Description: WS-001(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062597
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

1-SRF SDG#: PEH69-06

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	0.0021 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.06	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0032 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0038 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

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	C131402AA	05/21/2013 01:10	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 01:10	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 13:02	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 19:57	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062598
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:05 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

1--10 SDG#: PEH69-07

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	ug/l	ug/l	ug/l	
	purge					
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)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062598
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:05 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

1--10 SDG#: PEH69-07

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	ug/l	ug/l	ug/l	
	purge					
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	20.5	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	0.0528	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.36	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062598
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:05 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

1--10 SDG#: PEH69-07

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	0.0049 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.32	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0044 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0013 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0070	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 01:33	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 01:33	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 13:29	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 20:01	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062599
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:25 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

4--SR SDG#: PEH69-08

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.1	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)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062599
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:25 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

4--SR SDG#: PEH69-08

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	ug/l	ug/l	ug/l	
	purge					
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	0.051	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	34.1	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	0.205	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.94	0.0640	0.200	1

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

Sample Description: WS-004(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062599
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:25 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

4--SR SDG#: PEH69-08

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	0.0155	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0134 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.06	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0133	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	0.0231	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000070 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 01:55	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 01:55	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 13:56	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13142WAB026	05/22/2013 02:55	Roman Kuropatkin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 20:05	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062600
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:30 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

4--10 SDG#: PEH69-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.7	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(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062600
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:30 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

4--10 SDG#: PEH69-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
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	0.6	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	36.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0082 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.233	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.95	0.0640	0.200	1

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

Sample Description: WS-004(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062600
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

4--10 SDG#: PEH69-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0218	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0209	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.55	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0186	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0013 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0323	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000079 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 02:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 02:17	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 14:23	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13142WAB026	05/22/2013 02:55	Roman Kuropatkin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 20:08	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062601
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:50 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

7--SR SDG#: PEH69-10

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.3 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062601
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

7--SR SDG#: PEH69-10

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	ug/l	ug/l	ug/l	
	purge					
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	0.6	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	0.013 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.015 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	0.019 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.039 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	0.011 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.037 J	0.010	0.051	1

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

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.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

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

Sample Description: WS-007(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062601
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

7--SR SDG#: PEH69-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
The sample was re-extracted and the QC is compliant. However, the sample surrogate recoveries were outside of QC limits in the re-extraction. Similar results were obtained in both trials.						
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	41.7	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0108 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.266	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00045 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.37	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0305	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0249	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.66	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0250	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	0.0438	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 02:39	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 02:39	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13142WAB026	05/22/2013 19:49	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13142WAB026	05/22/2013 02:55	Roman Kuropatkin	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1

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

Sample Description: WS-007(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062601
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

7--SR SDG#: PEH69-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 20:12	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062602
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:55 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

7--10 SDG#: PEH69-11

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	4.2 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062602
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:55 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

7--10 SDG#: PEH69-11

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	ug/l	ug/l	ug/l	
	purge					
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.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.024 J	0.010	0.051	1
08357	Anthracene	120-12-7	0.052	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.13	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.11	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.39	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.097	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.13	0.010	0.051	1
08357	Chrysene	218-01-9	0.26	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.022 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.53	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	0.14	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	0.11	0.030	0.051	1
08357	Pyrene	129-00-0	0.47	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	38.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0091 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.274	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.57	0.0640	0.200	1

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

Sample Description: WS-007(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062602
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 10:55 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

7--10 SDG#: PEH69-11

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	0.0104 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0269	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.09	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0136	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	0.0229	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

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	C131402AA	05/21/2013 03:01	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 03:01	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 15:18	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13142WAB026	05/22/2013 02:55	Roman Kuropatkin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 20:16	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062603
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 11:15 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

6--SR SDG#: PEH69-12

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-006(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062603
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 11:15 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

6--SR SDG#: PEH69-12

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.032 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	17.6	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	0.0244	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.92	0.0640	0.200	1

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

Sample Description: WS-006(Surface)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062603
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 11:15 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

6--SR SDG#: PEH69-12

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	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.89	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	0.0016 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 03:23	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 03:23	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 15:45	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 20:20	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062604
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 11:20 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

6--10 SDG#: PEH69-13

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

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

Sample Description: WS-006(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062604
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 11:20 by TM

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

6--10 SDG#: PEH69-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.011 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	0.037 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	0.033 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.024 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	19.0	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	0.0350	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.14	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)051913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062604
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013 11:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/20/2013 09:45

PO Box 4416

Reported: 05/23/2013 11:05

Houston TX 77210-4416

6--10 SDG#: PEH69-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.09	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0032 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0034 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131402AA	05/21/2013 03:45	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/21/2013 03:45	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13141WAA026	05/22/2013 16:12	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13141WAA026	05/21/2013 13:45	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131416256001	05/21/2013 08:39	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131401848001	05/20/2013 20:32	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131405713001	05/21/2013 08:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131401848001	05/20/2013 13:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131405713001	05/20/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-TB-47-051913 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062605
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

TB-47 SDG#: PEH69-14TB*

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-TB-47-051913 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7062605
LLI Group # 1391095
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/19/2013

ExxonMobil

Submitted: 05/20/2013 09:45

Mobil Pipeline Company

Reported: 05/23/2013 11:05

PO Box 4416

Houston TX 77210-4416

TB-47 SDG#: PEH69-14TB*

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	ug/l	ug/l	ug/l	
	purge					
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	C131402AA	05/20/2013 22:12	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131402AA	05/20/2013 22:12	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/23/13 at 11:05 AM

Group Number: 1391095

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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C131402AA	Sample number(s): 7062589-7062595, 7062597-7062605								
Acetone	N.D.	3.0	5.0	ug/l	130		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	99		61-130		
Benzene	N.D.	0.1	0.5	ug/l	107		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	110		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	105		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	109		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	106		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	120		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	114		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	108		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	110		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	98		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	120		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	110		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	103		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	90		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	109		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	109		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	125		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	109		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	109		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	107		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	96		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	106		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	113		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	99		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: 1391095

Reported: 05/23/13 at 11:05 AM

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	107		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	105		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	95		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	96		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	111		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Styrene	N.D.	0.1	0.5	ug/l	110		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	103		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	124		65-131		
Toluene	N.D.	0.1	0.5	ug/l	107		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	91		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	92		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	110		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	109		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	99		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	103		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	109		80-120		

Batch number: 13141WAA026

Sample number(s): 7062589-7062595, 7062597-7062600, 7062602-7062604

Acenaphthene	N.D.	0.010	0.050	ug/l	102		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	108		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	106		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	111		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	105		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	122		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	89		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	114		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	105		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	93		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	105		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	103		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	95		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	103		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	99		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	104		71-116		

Batch number: 13142WAB026

Sample number(s): 7062601

Acenaphthene	N.D.	0.010	0.050	ug/l	106	108	65-124	2	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	112	113	72-113	1	30
Anthracene	N.D.	0.010	0.050	ug/l	110	110	70-117	1	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	119*	119*	75-115	0	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	111	109	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	121	119	74-130	2	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	119	116	63-121	3	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	122*	119*	74-118	2	30
Chrysene	N.D.	0.010	0.050	ug/l	109	109	75-112	0	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	120	116	66-122	3	30
Fluoranthene	N.D.	0.010	0.050	ug/l	114	117*	73-116	2	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: 1391095

Reported: 05/23/13 at 11:05 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	N.D.	0.010	0.050	ug/l	107	108	74-115	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	123*	120	66-122	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	113	116*	72-114	2	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	111	113	74-119	2	30
Naphthalene	N.D.	0.030	0.050	ug/l	108	109	67-118	1	30
Phenanthrene	N.D.	0.030	0.050	ug/l	106	108	72-109	2	30
Pyrene	N.D.	0.010	0.050	ug/l	111	112	71-116	1	30

Batch number: 131401848001

Sample number(s): 7062589-7062604

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	101		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	99		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	93		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	101		90-110		

Batch number: 131405713001

Sample number(s): 7062589-7062604

Mercury	N.D.	0.00007	0.00020	mg/l	95		80-120		
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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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131402AA	Sample number(s): 7062589-7062595, 7062597-7062605 UNSPK: 7062593								
Acetone	122	138	57-163	11	30				
Allyl Chloride	110	112	67-139	2	30				
Benzene	117	116	87-126	1	30				
Bromobenzene	109	108	80-123	1	30				
Bromochloromethane	113	115	82-125	2	30				
Bromodichloromethane	111	112	82-133	1	30				
Bromoform	112	111	60-138	1	30				
Bromomethane	117	115	41-145	2	30				
2-Butanone	117	133	63-146	13	30				
n-Butylbenzene	116	116	83-131	0	30				
sec-Butylbenzene	118	118	84-128	0	30				
tert-Butylbenzene	117	119	84-135	1	30				
Carbon Tetrachloride	128	128	81-148	0	30				
Chlorobenzene	119	118	78-133	1	30				
Chloroethane	117	117	70-139	0	30				
Chloroform	119	117	86-136	1	30				
Chloromethane	109	110	55-152	1	30				
2-Chlorotoluene	115	114	81-120	1	30				
4-Chlorotoluene	116	115	82-119	1	30				
1,2-Dibromo-3-chloropropane	119	136	43-143	13	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
Reported: 05/23/13 at 11:05 AM

Group Number: 1391095

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
Dibromochloromethane	114	114	79-125	0	30				
1,2-Dibromoethane	107	106	84-127	1	30				
Dibromomethane	109	109	83-126	0	30				
1,2-Dichlorobenzene	109	111	83-117	1	30				
1,3-Dichlorobenzene	114	113	81-118	1	30				
1,4-Dichlorobenzene	112	111	79-120	1	30				
Dichlorodifluoromethane	100	97	28-136	2	30				
1,1-Dichloroethane	118	119	88-136	1	30				
1,2-Dichloroethane	112	113	82-135	1	30				
1,1-Dichloroethene	126	128	83-150	2	30				
cis-1,2-Dichloroethene	116	116	82-129	0	30				
trans-1,2-Dichloroethene	122	121	88-127	0	30				
Dichlorofluoromethane	136	135	59-176	1	30				
1,2-Dichloropropane	117	118	91-126	1	30				
1,3-Dichloropropane	108	109	80-127	1	30				
2,2-Dichloropropane	122	124	80-134	2	30				
1,1-Dichloropropene	121	122	86-139	1	30				
cis-1,3-Dichloropropene	106	109	74-132	3	30				
trans-1,3-Dichloropropene	102	103	71-128	1	30				
Ethyl ether	107	107	67-127	0	30				
Ethylbenzene	120	119	80-140	1	30				
Freon 113	129	129	87-158	0	30				
Hexachlorobutadiene	109	112	65-128	3	30				
Isopropylbenzene	119	120	81-133	1	30				
p-Isopropyltoluene	118	117	84-124	0	30				
Methyl Tertiary Butyl Ether	96	101	82-132	4	30				
4-Methyl-2-Pentanone	95	99	69-149	3	30				
Methylene Chloride	117	118	84-122	1	30				
n-Propylbenzene	115	116	79-131	0	30				
Styrene	119	117	63-151	1	30				
1,1,1,2-Tetrachloroethane	116	116	87-126	0	30				
1,1,2,2-Tetrachloroethane	103	102	75-131	1	30				
Tetrachloroethene	122	121	75-129	1	30				
Tetrahydrofuran	119	130	56-154	9	30				
Toluene	118	117	83-127	1	30				
1,2,3-Trichlorobenzene	95	100	73-125	5	30				
1,2,4-Trichlorobenzene	100	103	77-120	3	30				
1,1,1-Trichloroethane	122	124	85-140	1	30				
1,1,2-Trichloroethane	112	111	85-129	1	30				
Trichloroethene	119	118	85-131	0	30				
Trichlorofluoromethane	122	120	67-161	2	30				
1,2,3-Trichloropropane	101	101	76-120	0	30				
1,2,4-Trimethylbenzene	115	115	87-126	0	30				
1,3,5-Trimethylbenzene	116	116	89-129	0	30				
Vinyl Chloride	116	117	65-151	1	30				
Xylene (Total)	120	119	81-137	0	30				

Batch number: 13141WAA026	Sample number(s): 7062589-7062595, 7062597-7062600, 7062602-7062604 UNSPK: 7062593								
Acenaphthene	97	103	59-127	6	30				
Acenaphthylene	103	106	33-146	2	30				
Anthracene	93	94	69-119	0	30				
Benzo(a)anthracene	116	112	67-124	4	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
Reported: 05/23/13 at 11:05 AM

Group Number: 1391095

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
Benzo(a)pyrene	82	77	64-123	7	30				
Benzo(b)fluoranthene	110	100	61-133	10	30				
Benzo(g,h,i)perylene	79	93	36-138	16	30				
Benzo(k)fluoranthene	105	94	59-128	12	30				
Chrysene	93	86	62-118	8	30				
Dibenz(a,h)anthracene	82	89	32-141	8	30				
Fluoranthene	85	101	65-123	16	30				
Fluorene	101	103	69-124	2	30				
Indeno(1,2,3-cd)pyrene	88	98	29-143	10	30				
1-Methylnaphthalene	109	109	67-117	1	30				
2-Methylnaphthalene	111	107	71-126	3	30				
Naphthalene	102	101	58-131	2	30				
Phenanthrene	105	107	67-117	1	30				
Pyrene	89	113	59-125	23	30				

Batch number: 131401848001	Sample number(s): 7062589-7062604 UNSPK: 7062593 BKG: 7062593								
Arsenic	104	105	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	101	102	78-118	1	20	0.0544	0.0579	6	20
Cadmium	98	98	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	119 (2)	111 (2)	81-118	1	20	16.4	17.2	5	20
Chromium	99	100	81-120	1	20	0.0024 J	0.0023 J	4 (1)	20
Lead	99	102	75-125	3	20	N.D.	N.D.	0 (1)	20
Magnesium	117 (2)	115 (2)	75-125	0	20	8.02	8.43	5	20
Nickel	101	102	86-115	1	20	0.0091 J	0.0086 J	5 (1)	20
Selenium	98	93	75-125	5	20	N.D.	N.D.	0 (1)	20
Silver	92	93	75-125	1	20	N.D.	0.0013 J	200* (1)	20
Vanadium	103	104	90-111	2	20	0.0035 J	0.0035 J	1 (1)	20

Batch number: 131405713001	Sample number(s): 7062589-7062604 UNSPK: 7062593 BKG: 7062593								
Mercury	87	84	80-120	4	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge
Batch number: C131402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7062589	105	103	99	96
7062590	105	104	99	95
7062591	106	103	100	96
7062592	106	102	100	95
7062593	105	102	100	97
7062594	102	101	102	100
7062595	102	101	102	99
7062597	103	102	100	97
7062598	104	102	99	95

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1391095

Reported: 05/23/13 at 11:05 AM

Surrogate Quality Control

7062599	104	101	99	96
7062600	104	100	100	96
7062601	104	100	99	96
7062602	104	102	99	95
7062603	105	102	99	96
7062604	104	102	99	97
7062605	105	105	100	97
Blank	106	103	99	95
LCS	102	101	102	100
MS	102	101	102	100
MSD	102	101	102	99

Limits: 77-114 74-113 77-110 78-110

Analysis Name: PAHs in waters by SIM

Batch number: 13141WAA026

Fluoranthene-d10 Benzo(a)pyrene-d12 1-Methylnaphthalene-d10

7062589	97	74	98
7062590	99	80	99
7062591	91	80	92
7062592	101	89	101
7062593	88	87	102
7062594	78	98	103
7062595	96	91	104
7062597	94	80	100
7062598	89	74	92
7062599	36*	28*	47*
7062600	30*	26*	35*
7062602	26*	20*	33*
7062603	95	73	99
7062604	89	68	91
Blank	100	112	100
LCS	98	112	104
MS	78	98	103
MSD	96	91	104

Limits: 64-120 62-141 58-134

Analysis Name: PAHs in waters by SIM

Batch number: 13142WAB026

Fluoranthene-d10 Benzo(a)pyrene-d12 1-Methylnaphthalene-d10

7062601	66	59*	76
Blank	101	114	100
LCS	111	125	113
LCSD	111	121	114

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.

p. 1 of 2

7053 0413

Pg. 252

Issued by Dept. 40 Management
7053 0413

G-1391095

Environmental Sample Administration
Receipt Documentation LogClient/Project: MayflowerShipping Container Sealed: YES NODate of Receipt: 5/20/13Custody Seal Present * : YES NOTime of Receipt: 0945* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.6	TB	WI	Y	B	
2	↓	0.5	↓	↓	↓	↓	
3	↓	0.9	↓	↓	↓	↓	
4	↓	2.3	↓	↓	↓	↓	
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: C. Esler 3647 Date/Time: 5/20/13 1100

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ 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		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	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.

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