

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 11, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/07/2013

Group Number: 1387861

SDG: PEH25

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)050613 Grab Surface Water	7046506
WS-019(SURFACE)050613 Grab Surface Water	7046507
WS-002(SURFACE)050613 Grab Surface Water	7046508
WS-008(SURFACE)050613 Grab Surface Water	7046509
WS-001(SURFACE)050613 Grab Surface Water	7046510
WS-001(0.5-1.0)050613 Grab Surface Water	7046511
WS-004(SURFACE)050613 Grab Surface Water	7046512
WS-004(0.5-1.0)050613 Grab Surface Water	7046513
WS-007(SURFACE)050613 Grab Surface Water	7046514
WS-007(0.5-1.0)050613 Grab Surface Water	7046515
WS-006(SURFACE)050613 Grab Surface Water	7046516
WS-DUP-21-050613 Grab Surface Water	7046517
WS-006(0.5-1.0)050613 Grab Surface Water	7046518
WS-TB34-050613 Water	7046519
WS-011(1.5-2.0)050613 Grab Surface Water	7046520
WS-011(5.0-5.5)050613 Grab Surface Water	7046521
WS-014(1.5-2.0)050613 Grab Surface Water	7046522
WS-014(4.0-4.5)050613 Grab Surface Water	7046523
WS-012(1.5-2.0)050613 Grab Surface Water	7046524
WS-012(4.5-5.0)050613 Grab Surface Water	7046525
WS-010(1.5-2.0)050613 Grab Surface Water	7046526
WS-018(1.0-1.5)050613 Grab Surface Water	7046527
WS-FB-31-050613 Grab Water	7046528

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

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Attn: Stephen Barrick

Attn: Lyndi Mott

Attn: Scott Bushroe

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 #: 1387861

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:**SW-846 8270C SIM, GC/MS Semivolatiles**

Batch #: 13127WAA026 (Sample number(s): 7046506-7046518, 7046520-7046526)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7046507, 7046512, 7046513, 7046514, 7046515

Sample #s: 7046506, 7046508, 7046509, 7046510, 7046511, 7046516, 7046518, 7046520, 7046521, 7046522, 7046523, 7046524, 7046525, 7046526

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

Sample #s: 7046527

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

Sample #s: 7046517

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis. Reporting limits were raised due to limited sample volume.

Sample #s: 7046512, 7046513, 7046514, 7046515

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

Sample #s: 7046507

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. Reporting limits were raised due to limited sample volume.

SW-846 6010B, Metals

Batch #: 131271848001 (Sample number(s): 7046506-7046518, 7046520-7046526 UNSPK: 7046512 BKG: 7046512)

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

Batch #: 131271848002 (Sample number(s): 7046527-7046528 UNSPK: 7046527 BKG: 7046527)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Nickel, Vanadium

EPA 1664A, Wet Chemistry

Batch #: 13128807901A (Sample number(s): 7046527 UNSPK: P40220 BKG: P40220)

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

Sample Description: WS-003 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046506
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 08:50 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

SR-03 SDG#: PEH25-01

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) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046506
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 08:50 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-03 SDG#: PEH25-01

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	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.	0.012	0.062	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.062	1
08357	Anthracene	120-12-7	N.D.	0.012	0.062	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.062	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.062	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.062	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.062	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.062	1
08357	Chrysene	218-01-9	N.D.	0.012	0.062	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.062	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.062	1
08357	Fluorene	86-73-7	N.D.	0.012	0.062	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.062	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.062	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.062	1
08357	Naphthalene	91-20-3	N.D.	0.037	0.062	1
08357	Phenanthrene	85-01-8	N.D.	0.037	0.062	1
08357	Pyrene	129-00-0	N.D.	0.012	0.062	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.8	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	0.0272	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-003 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046506
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 08:50 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-03 SDG#: PEH25-01

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	
01750	Calcium	7440-70-2	3.35	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.80	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	0.0021 J	0.0013	0.0050	1
SW-846 7470A						
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	3.2 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 19:20	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 19:20	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 10:47	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 18:46	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-019(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046507
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:30 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

19-SR SDG#: PEH25-02

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

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

Sample Description: WS-019(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046507
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:30 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

19-SR SDG#: PEH25-02

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	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.	0.013	0.065	1
08357	Acenaphthylene	208-96-8	N.D.	0.013	0.065	1
08357	Anthracene	120-12-7	N.D.	0.013	0.065	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.013	0.065	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.013	0.065	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.013	0.065	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.013	0.065	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.013	0.065	1
08357	Chrysene	218-01-9	N.D.	0.013	0.065	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.013	0.065	1
08357	Fluoranthene	206-44-0	N.D.	0.013	0.065	1
08357	Fluorene	86-73-7	N.D.	0.013	0.065	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.013	0.065	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.013	0.065	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.013	0.065	1
08357	Naphthalene	91-20-3	0.077	0.039	0.065	1
08357	Phenanthrene	85-01-8	N.D.	0.039	0.065	1
08357	Pyrene	129-00-0	N.D.	0.013	0.065	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.

Reporting limits were raised due to limited sample volume.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l
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*=This limit was used in the evaluation of the final result

Sample Description: WS-019 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046507
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:30 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

19-SR SDG#: PEH25-02

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	51.9	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0138 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.324	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	10.2	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0417	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0751	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.43	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0330	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	0.0603	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 19:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 19:43	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 11:17	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1

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

Sample Description: WS-019 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046507
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

19-SR SDG#: PEH25-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 18:50	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-002 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046508
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:10 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

SR-02 SDG#: PEH25-03

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-002 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046508
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-02 SDG#: PEH25-03

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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0205	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-002 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046508
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-02 SDG#: PEH25-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.30	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0011 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0055 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0015 J	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.1 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 20:05	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 20:05	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 11:47	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:02	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-008(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046509
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:00 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

08-SR SDG#: PEH25-04

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	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	0.1 J	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	1.9	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	0.1 J	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)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046509
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:00 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

08-SR SDG#: PEH25-04

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	0.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.2 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	0.028 J	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	0.055 J	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	0.067	0.011	0.056	1
08357	Naphthalene	91-20-3	0.086	0.034	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.056	1
08357	Pyrene	129-00-0	0.017 J	0.011	0.056	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	69.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0359	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-008 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046509
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

08-SR SDG#: PEH25-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	15.8	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.22	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	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 20:27	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 20:27	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 12:17	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:06	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-001(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046510
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:15 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

01-SR SDG#: PEH25-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046510
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:15 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

01-SR SDG#: PEH25-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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.	0.012	0.061	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.061	1
08357	Anthracene	120-12-7	N.D.	0.012	0.061	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.061	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.061	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.061	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.061	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.061	1
08357	Chrysene	218-01-9	N.D.	0.012	0.061	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.061	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.061	1
08357	Fluorene	86-73-7	N.D.	0.012	0.061	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.061	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.061	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.061	1
08357	Naphthalene	91-20-3	N.D.	0.037	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.037	0.061	1
08357	Pyrene	129-00-0	N.D.	0.012	0.061	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0454	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046510
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:15 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

01-SR SDG#: PEH25-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.63	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0054 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0101 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.01	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0035 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0070	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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 20:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 20:50	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 12:47	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:10	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-001(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046511
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:30 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

01-05 SDG#: PEH25-06

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(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046511
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

01-05 SDG#: PEH25-06

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.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	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	0.0471	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046511
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

01-05 SDG#: PEH25-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.63	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0051 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0092 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.06	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0043 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	0.0079	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.8 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 21:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 21:13	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 13:17	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-004(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046512
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:45 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

SR-04 SDG#: PEH25-07

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	7.5	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.1 J	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046512
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:45 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-04 SDG#: PEH25-07

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	2.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.3 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.9	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.	0.012	0.059	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.059	1
08357	Anthracene	120-12-7	N.D.	0.012	0.059	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.059	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.059	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.059	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.059	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.059	1
08357	Chrysene	218-01-9	N.D.	0.012	0.059	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.059	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.059	1
08357	Fluorene	86-73-7	N.D.	0.012	0.059	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.059	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.059	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	0.012	0.059	1
08357	Naphthalene	91-20-3	N.D.	0.035	0.059	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.059	1
08357	Pyrene	129-00-0	N.D.	0.012	0.059	1

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

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	46.9	0.064	0.20

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

Sample Description: WS-004 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046512
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:45 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-04 SDG#: PEH25-07

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	
07035	Arsenic	7440-38-2	0.0102 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.323	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.63	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0494	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0771	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0356	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	0.0712	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013	21:36	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013	21:36	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	131271848001	05/10/2013	13:47	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013	14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013	05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013	18:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013	07:48	Damary Valentin	1

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

Sample Description: WS-004 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046512
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:45 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-04 SDG#: PEH25-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-004(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046513
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:00 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

05-04 SDG#: PEH25-08

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	7.2	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.1 J	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046513
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

05-04 SDG#: PEH25-08

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	2.8	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.4 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.4 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.2	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.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	0.015 J	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	0.013 J	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	0.014 J	0.012	0.058	1
08357	Naphthalene	91-20-3	N.D.	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	0.016 J	0.012	0.058	1

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

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	46.6	0.064	0.20

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

Sample Description: WS-004(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046513
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

05-04 SDG#: PEH25-08

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	
07035	Arsenic	7440-38-2	0.0126 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.321	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.61	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0469	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0831	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.71	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0363	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	0.0675	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
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 22:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 22:43	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 14:17	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:50	Damary Valentin	1

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

Sample Description: WS-004(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046513
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

05-04 SDG#: PEH25-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-007(SURFACE)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046514
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:20 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

SR-07 SDG#: PEH25-09

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	7.2	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) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046514
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:20 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-07 SDG#: PEH25-09

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	0.1 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	0.2 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.6	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.037 J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.032 J	0.010	0.052	1
08357	Anthracene	120-12-7	0.044 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.13	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.054	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.32	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.031 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.13	0.010	0.052	1
08357	Chrysene	218-01-9	0.52	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	1.6	0.010	0.052	1
08357	Fluorene	86-73-7	0.080	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.046 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.027 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.036 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.052	1
08357	Pyrene	129-00-0	1.0	0.010	0.052	1

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

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	47.3	0.064	0.20

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

Sample Description: WS-007 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046514
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:20 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-07 SDG#: PEH25-09

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	
07035	Arsenic	7440-38-2	0.0110 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.328	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.59	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0473	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0766	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.88	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0358	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	0.0681	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000073 J	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 23:06	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 23:06	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 14:47	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:52	Damary Valentin	1

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

Sample Description: WS-007 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046514
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:20 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

SR-07 SDG#: PEH25-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-007(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046515
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:35 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

05-07 SDG#: PEH25-10

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	6.0	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	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)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046515
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:35 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

05-07 SDG#: PEH25-10

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	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	0.2 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.6	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.021 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	0.022 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.046 J	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	0.012 J	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	0.043 J	0.010	0.052	1

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

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	47.4	0.064	0.20

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

Sample Description: WS-007(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046515
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:35 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

05-07 SDG#: PEH25-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0109 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.329	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.60	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0460	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0759	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.91	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0363	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	0.0675	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000081 J	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 23:28	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 23:28	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	131271848001	05/10/2013 15:17	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:26	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:54	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046515
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:35 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

05-07 SDG#: PEH25-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-006 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046516
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:55 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

06-SR SDG#: PEH25-11

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	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) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046516
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

06-SR SDG#: PEH25-11

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	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	0.028 J	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	0.023 J	0.011	0.053	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.6	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	0.0424	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-006 (SURFACE) 050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046516
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 14:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

06-SR SDG#: PEH25-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.47	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0045 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0092 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.93	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0034 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	0.0064	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/07/2013 23:51	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 23:51	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 16:52	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:30	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-DUP-21-050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046517
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

FD-21 SDG#: PEH25-12FD

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	0.4 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	0.1 J	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	1.9	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	0.1 J	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-DUP-21-050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046517
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

FD-21 SDG#: PEH25-12FD

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	0.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.2 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.8	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.	0.013	0.063	1
08357	Acenaphthylene	208-96-8	N.D.	0.013	0.063	1
08357	Anthracene	120-12-7	N.D.	0.013	0.063	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.013	0.063	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.013	0.063	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.013	0.063	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.013	0.063	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.013	0.063	1
08357	Chrysene	218-01-9	N.D.	0.013	0.063	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.013	0.063	1
08357	Fluoranthene	206-44-0	N.D.	0.013	0.063	1
08357	Fluorene	86-73-7	0.016 J	0.013	0.063	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.013	0.063	1
08357	1-Methylnaphthalene	90-12-0	0.061 J	0.013	0.063	1
08357	2-Methylnaphthalene	91-57-6	0.072	0.013	0.063	1
08357	Naphthalene	91-20-3	0.097	0.038	0.063	1
08357	Phenanthrene	85-01-8	N.D.	0.038	0.063	1
08357	Pyrene	129-00-0	N.D.	0.013	0.063	1

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

Reporting limits were raised due to limited sample volume.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	67.7	0.064	0.20
	SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200

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

Sample Description: WS-DUP-21-050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046517
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

FD-21 SDG#: PEH25-12FD

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	
07046	Barium	7440-39-3	0.0352	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	15.4	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.07	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0088 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/08/2013 00:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/08/2013 00:13	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 20:33	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:34	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1

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

Sample Description: WS-DUP-21-050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046517
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

FD-21 SDG#: PEH25-12FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

Sample Description: WS-006(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046518
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 15:10 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

06-05 SDG#: PEH25-13

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)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046518
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 15:10 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

06-05 SDG#: PEH25-13

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	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0354	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-006(0.5-1.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046518
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 15:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

06-05 SDG#: PEH25-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.42	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0037 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0070 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.87	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0036 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0048 J	0.0013	0.0050	1
SW-846 7470A						
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/08/2013 00:58	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/08/2013 00:58	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 21:03	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:38	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-TB34-050613 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046519
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

TB34- SDG#: PEH25-14TB

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	0.1 J	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-TB34-050613 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046519
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

TB34- SDG#: PEH25-14TB

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	C131273AA	05/07/2013 18:58	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/07/2013 18:58	Kevin A Sposito	1

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

Sample Description: WS-011(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046520
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:35 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

11-15 SDG#: PEH25-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-011(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046520
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:35 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

11-15 SDG#: PEH25-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0206	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-011(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046520
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:35 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

11-15 SDG#: PEH25-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.27	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.64	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0074	0.00018	0.00050	2.5
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/08/2013 01:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/08/2013 01:21	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 21:33	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:50	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 09:25	Damary Valentin	2.5
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-011(5.0-5.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046521
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:40 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

11-50 SDG#: PEH25-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-011(5.0-5.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046521
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

11-50 SDG#: PEH25-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.8	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	0.0211	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-011(5.0-5.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046521
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 09:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

11-50 SDG#: PEH25-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.24	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00087	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/08/2013 01:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/08/2013 01:43	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 22:02	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:54	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 08:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-014(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046522
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:40 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

14-15 SDG#: PEH25-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-014(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046522
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

14-15 SDG#: PEH25-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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	0.037 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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.7	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	0.0202	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-014(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046522
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

14-15 SDG#: PEH25-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.21	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0013 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.62	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	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131273AA	05/08/2013 02:06	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131273AA	05/08/2013 02:06	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 22:32	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 19:58	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 08:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-014(4.0-4.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046523
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:45 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

14-40 SDG#: PEH25-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-014(4.0-4.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046523
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:45 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

14-40 SDG#: PEH25-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0208	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-014(4.0-4.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046523
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 10:45 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

14-40 SDG#: PEH25-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.28	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
	mg/l		mg/l	mg/l		
00259	Mercury	7439-97-6	0.0018	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131282AA	05/08/2013 13:03	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131282AA	05/08/2013 13:03	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 23:01	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 20:02	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 08:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-012(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046524
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:30 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

12-15 SDG#: PEH25-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-012(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046524
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

12-15 SDG#: PEH25-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0218	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-012(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046524
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

12-15 SDG#: PEH25-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.23	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.65	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0017 J	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00041	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131282AA	05/08/2013 13:26	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131282AA	05/08/2013 13:26	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/10/2013 23:31	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 20:06	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 08:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-012(4.5-5.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046525
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:35 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

12-45 SDG#: PEH25-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-012(4.5-5.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046525
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:35 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

12-45 SDG#: PEH25-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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	0.011 J	0.010	0.052	1
08357	Naphthalene	91-20-3	0.054	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.0	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	0.0217	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-012(4.5-5.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046525
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:35 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

12-45 SDG#: PEH25-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.28	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.66	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0023 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	0.0017 J	0.0013	0.0050	1
SW-846 7470A						
	mg/l		mg/l	mg/l		
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131282AA	05/08/2013 13:48	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131282AA	05/08/2013 13:48	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/11/2013 00:00	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 20:10	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 08:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-010(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046526
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:55 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

10-15 SDG#: PEH25-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-010(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046526
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

10-15 SDG#: PEH25-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.036 J	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0519	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-010(1.5-2.0)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046526
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 11:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

10-15 SDG#: PEH25-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.51	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0065 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0106 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.06	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0053 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	0.0089	0.0013	0.0050	1
SW-846 7470A						
	mg/l		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00016 J	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131282AA	05/08/2013 14:11	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131282AA	05/08/2013 14:11	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAA026	05/11/2013 00:30	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAA026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 05:07	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131271848001	05/07/2013 20:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131275713002	05/08/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848001	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713002	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13127807902A	05/07/2013 16:56	Michelle L Lalli	1

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

Sample Description: WS-018(1.0-1.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046527
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:10 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

18-10 SDG#: PEH25-22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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-018(1.0-1.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046527
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:10 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

18-10 SDG#: PEH25-22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0232	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-018(1.0-1.5)050613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046527
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/07/2013 08:25

PO Box 4416

Reported: 05/11/2013 07:32

Houston TX 77210-4416

18-10 SDG#: PEH25-22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.32	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.66	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	0.00022	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131282AA	05/08/2013 14:33	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131282AA	05/08/2013 14:33	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13127WAB026	05/09/2013 05:35	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13127WAB026	05/07/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131286256001	05/08/2013 04:51	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07046	Barium	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
01750	Calcium	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07051	Chromium	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07055	Lead	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07061	Nickel	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07036	Selenium	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07066	Silver	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131271848002	05/07/2013 16:55	John P Hook	1
00259	Mercury	SW-846 7470A	1	131275713003	05/08/2013 08:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848002	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713003	05/07/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13128807901A	05/08/2013 09:50	Yolunder Y Bunch	1

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

Sample Description: WS-FB-31-050613 Grab Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7046528
LLI Group # 1387861
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/06/2013 13:20 by HVA

ExxonMobil

Submitted: 05/07/2013 08:25

Mobil Pipeline Company

Reported: 05/11/2013 07:32

PO Box 4416

Houston TX 77210-4416

FB31- SDG#: PEH25-23FB*

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	N.D.	0.064	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	N.D.	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	N.D.	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	N.D.	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131286256001	05/08/2013 04:51	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07046	Barium	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07055	Lead	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07066	Silver	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131271848002	05/07/2013 17:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	131275713003	05/08/2013 08:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131271848002	05/07/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131275713003	05/07/2013 16:10	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/11/13 at 07:32 AM

Group Number: 1387861

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: C131273AA	Sample number(s): 7046506-7046522								
Acetone	N.D.	3.0	5.0	ug/l	116		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	103		61-130		
Benzene	N.D.	0.1	0.5	ug/l	105		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	101		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	102		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	98		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	96		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	106		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	108		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	97		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	105		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	88		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	110		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	103		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	102		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	78		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	116		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	124		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	103		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		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	103		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	102		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	112		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	100		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: 1387861

Reported: 05/11/13 at 07:32 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	106		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	100		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	97		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	109		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Styrene	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	98		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	122		65-131		
Toluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	95		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	98		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	106		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	95		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	97		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	92		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: C131282AA

Sample number(s): 7046523-7046527

Acetone	N.D.	3.0	5.0	ug/l	104		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	103		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	103		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	101		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	104		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	94		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	107		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	106		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	93		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	104		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	85		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	100		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	101		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	107		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	104		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	101		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	101		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	74		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	104		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	103		80-120		

*- 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: 1387861

Reported: 05/11/13 at 07:32 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>
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	122		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	104		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	103		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	99		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	110		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	101		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	103		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	97		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	94		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	106		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Styrene	N.D.	0.1	0.5	ug/l	104		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	96		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	111		65-131		
Toluene	N.D.	0.1	0.5	ug/l	101		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	94		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	96		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	105		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	101		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	94		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	96		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	88		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	102		80-120		

Batch number: 13127WAA026

Sample number(s): 7046506-7046518, 7046520-7046526

Acenaphthene	N.D.	0.010	0.050	ug/l	101	102	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	106	108	72-113	2	30
Anthracene	N.D.	0.010	0.050	ug/l	104	106	70-117	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	104	108	75-115	3	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	104	105	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	112	112	74-130	0	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	107	109	63-121	2	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	115	115	74-118	0	30
Chrysene	N.D.	0.010	0.050	ug/l	106	108	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	105	106	66-122	1	30
Fluoranthene	N.D.	0.010	0.050	ug/l	108	109	73-116	1	30
Fluorene	N.D.	0.010	0.050	ug/l	99	100	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	103	105	66-122	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	108	109	72-114	0	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105	107	74-119	2	30
Naphthalene	N.D.	0.030	0.050	ug/l	103	105	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	102	103	72-109	1	30
Pyrene	N.D.	0.010	0.050	ug/l	104	107	71-116	3	30

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387861

Reported: 05/11/13 at 07:32 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>
Batch number: 13127WAB026	Sample number(s): 7046527								
Acenaphthene	N.D.	0.010	0.050	ug/l	105	104	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	112	111	72-113	1	30
Anthracene	N.D.	0.010	0.050	ug/l	103	100	70-117	3	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	95	94	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	92	91	72-120	1	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	99	95	74-130	4	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	99	94	63-121	5	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	102	100	74-118	2	30
Chrysene	N.D.	0.010	0.050	ug/l	99	97	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	98	88	66-122	11	30
Fluoranthene	N.D.	0.010	0.050	ug/l	112	107	73-116	4	30
Fluorene	N.D.	0.010	0.050	ug/l	107	106	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	99	92	66-122	7	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	112	110	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	109	108	74-119	1	30
Naphthalene	N.D.	0.030	0.050	ug/l	109	107	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	105	103	72-109	2	30
Pyrene	N.D.	0.010	0.050	ug/l	102	100	71-116	1	30

Batch number: 131271848001

Sample number(s): 7046506-7046518, 7046520-7046526

Arsenic	N.D.	0.0068	0.0200	mg/l	105		90-113		
Barium	0.00047 J	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	103		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	104		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	105		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	105		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	107		90-110		

Batch number: 131271848002

Sample number(s): 7046527-7046528

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	100		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	103		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	97		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	95		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	100		90-110		

Batch number: 131275713002

Sample number(s): 7046506-7046518, 7046520-7046526

Mercury	N.D.	0.00007	0.00020	mg/l	93		80-120		
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Batch number: 131275713003

Sample number(s): 7046527-7046528

Mercury	N.D.	0.00007	0.00020	mg/l	91		80-120		
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Batch number: 13127807902A

Sample number(s): 7046506-7046518, 7046520-7046526

HEM (oil & grease)	1.4 J	1.4	5.0	mg/l	88	96	78-114	8	16
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*- 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: 1387861

Reported: 05/11/13 at 07:32 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>
Batch number: 13128807901A HEM (oil & grease)	Sample number(s): 7046527 N.D.	1.4	5.0	mg/l	88	83	78-114	6	16

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

<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: C131273AA	Sample number(s): 7046506-7046522 UNSPK: 7046506								
Acetone	112	113	57-163	1	30				
Allyl Chloride	113	115	67-139	1	30				
Benzene	111	113	87-126	2	30				
Bromobenzene	106	109	80-123	3	30				
Bromochloromethane	110	111	82-125	1	30				
Bromodichloromethane	106	109	82-133	2	30				
Bromoform	107	110	60-138	3	30				
Bromomethane	102	107	41-145	4	30				
2-Butanone	109	97	63-146	11	30				
n-Butylbenzene	111	114	83-131	2	30				
sec-Butylbenzene	113	115	84-128	2	30				
tert-Butylbenzene	112	115	84-135	3	30				
Carbon Tetrachloride	117	119	81-148	2	30				
Chlorobenzene	109	112	78-133	3	30				
Chloroethane	103	105	70-139	2	30				
Chloroform	111	114	86-136	3	30				
Chloromethane	95	98	55-152	3	30				
2-Chlorotoluene	108	112	81-120	4	30				
4-Chlorotoluene	108	111	82-119	2	30				
1,2-Dibromo-3-chloropropane	105	97	43-143	8	30				
Dibromochloromethane	108	111	79-125	2	30				
1,2-Dibromoethane	105	108	84-127	2	30				
Dibromomethane	105	109	83-126	3	30				
1,2-Dichlorobenzene	106	110	83-117	3	30				
1,3-Dichlorobenzene	109	112	81-118	2	30				
1,4-Dichlorobenzene	107	110	79-120	2	30				
Dichlorodifluoromethane	86	87	28-136	2	30				
1,1-Dichloroethane	112	116	88-136	4	30				
1,2-Dichloroethane	108	112	82-135	4	30				
1,1-Dichloroethene	123	126	83-150	2	30				
cis-1,2-Dichloroethene	111	115	82-129	3	30				
trans-1,2-Dichloroethene	115	118	88-127	2	30				
Dichlorofluoromethane	134	138	59-176	3	30				
1,2-Dichloropropane	110	114	91-126	4	30				
1,3-Dichloropropane	105	108	80-127	3	30				
2,2-Dichloropropane	114	117	80-134	3	30				
1,1-Dichloropropene	115	118	86-139	2	30				
cis-1,3-Dichloropropene	108	112	74-132	4	30				
trans-1,3-Dichloropropene	100	104	71-128	4	30				
Ethyl ether	101	108	67-127	7	30				
Ethylbenzene	111	114	80-140	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
Reported: 05/11/13 at 07:32 AM

Group Number: 1387861

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
Freon 113	124	123	87-158	0	30				
Hexachlorobutadiene	109	112	65-128	3	30				
Isopropylbenzene	112	116	81-133	4	30				
p-Isopropyltoluene	113	115	84-124	2	30				
Methyl Tertiary Butyl Ether	103	106	82-132	3	30				
4-Methyl-2-Pentanone	101	111	69-149	9	30				
Methylene Chloride	113	118	84-122	4	30				
n-Propylbenzene	110	113	79-131	3	30				
Styrene	111	114	63-151	3	30				
1,1,1,2-Tetrachloroethane	106	110	87-126	4	30				
1,1,2,2-Tetrachloroethane	100	105	75-131	4	30				
Tetrachloroethene	114	115	75-129	2	30				
Tetrahydrofuran	109	96	56-154	12	30				
Toluene	110	113	83-127	2	30				
1,2,3-Trichlorobenzene	101	108	73-125	7	30				
1,2,4-Trichlorobenzene	104	109	77-120	5	30				
1,1,1-Trichloroethane	115	118	85-140	2	30				
1,1,2-Trichloroethane	108	109	85-129	1	30				
Trichloroethene	113	117	85-131	3	30				
Trichlorofluoromethane	107	109	67-161	2	30				
1,2,3-Trichloropropane	102	106	76-120	4	30				
1,2,4-Trimethylbenzene	109	113	87-126	4	30				
1,3,5-Trimethylbenzene	110	114	89-129	3	30				
Vinyl Chloride	102	105	65-151	3	30				
Xylene (Total)	110	113	81-137	3	30				

Batch number: C131282AA Sample number(s): 7046523-7046527 UNSPK: 7046523

Acetone	110	123	57-163	11	30
Allyl Chloride	98	102	67-139	4	30
Benzene	94	104	87-126	11	30
Bromobenzene	94	105	80-123	12	30
Bromochloromethane	107	106	82-125	1	30
Bromodichloromethane	94	105	82-133	12	30
Bromoform	96	109	60-138	12	30
Bromomethane	95	101	41-145	6	30
2-Butanone	103	114	63-146	10	30
n-Butylbenzene	96	107	83-131	12	30
sec-Butylbenzene	96	110	84-128	13	30
tert-Butylbenzene	96	111	84-135	15	30
Carbon Tetrachloride	100	112	81-148	11	30
Chlorobenzene	96	109	78-133	13	30
Chloroethane	94	101	70-139	7	30
Chloroform	96	107	86-136	10	30
Chloromethane	85	91	55-152	6	30
2-Chlorotoluene	94	107	81-120	13	30
4-Chlorotoluene	94	106	82-119	12	30
1,2-Dibromo-3-chloropropane	102	111	43-143	9	30
Dibromochloromethane	97	109	79-125	12	30
1,2-Dibromoethane	94	107	84-127	13	30
Dibromomethane	94	104	83-126	10	30
1,2-Dichlorobenzene	95	107	83-117	12	30
1,3-Dichlorobenzene	95	108	81-118	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: 05/11/13 at 07:32 AM

Group Number: 1387861

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	95	107	79-120	12	30				
Dichlorodifluoromethane	76	78	28-136	2	30				
1,1-Dichloroethane	95	106	88-136	10	30				
1,2-Dichloroethane	94	105	82-135	11	30				
1,1-Dichloroethene	105	115	83-150	9	30				
cis-1,2-Dichloroethene	95	106	82-129	11	30				
trans-1,2-Dichloroethene	97	106	88-127	9	30				
Dichlorofluoromethane	127	133	59-176	4	30				
1,2-Dichloropropane	96	107	91-126	11	30				
1,3-Dichloropropane	94	105	80-127	11	30				
2,2-Dichloropropane	95	108	80-134	12	30				
1,1-Dichloropropene	97	108	86-139	11	30				
cis-1,3-Dichloropropene	91	104	74-132	13	30				
trans-1,3-Dichloropropene	87	99	71-128	13	30				
Ethyl ether	98	101	67-127	2	30				
Ethylbenzene	95	108	80-140	13	30				
Freon 113	106	114	87-158	7	30				
Hexachlorobutadiene	95	107	65-128	13	30				
Isopropylbenzene	97	110	81-133	13	30				
p-Isopropyltoluene	96	109	84-124	13	30				
Methyl Tertiary Butyl Ether	88	98	82-132	11	30				
4-Methyl-2-Pentanone	93	107	69-149	14	30				
Methylene Chloride	96	105	84-122	9	30				
n-Propylbenzene	94	107	79-131	13	30				
Styrene	97	110	63-151	13	30				
1,1,1,2-Tetrachloroethane	95	107	87-126	12	30				
1,1,2,2-Tetrachloroethane	94	106	75-131	12	30				
Tetrachloroethene	99	110	75-129	10	30				
Tetrahydrofuran	102	110	56-154	7	30				
Toluene	94	106	83-127	12	30				
1,2,3-Trichlorobenzene	89	103	73-125	14	30				
1,2,4-Trichlorobenzene	90	103	77-120	14	30				
1,1,1-Trichloroethane	98	110	85-140	12	30				
1,1,2-Trichloroethane	96	108	85-129	12	30				
Trichloroethene	96	108	85-131	11	30				
Trichlorofluoromethane	102	105	67-161	3	30				
1,2,3-Trichloropropane	92	105	76-120	13	30				
1,2,4-Trimethylbenzene	95	108	87-126	13	30				
1,3,5-Trimethylbenzene	95	109	89-129	14	30				
Vinyl Chloride	91	98	65-151	7	30				
Xylene (Total)	96	109	81-137	12	30				

Batch number: 131271848001	Sample number(s): 7046506-7046518,7046520-7046526 UNSPK: 7046512 BKG: 7046512								
Arsenic	104	105	81-123	1	20	0.0102 J	0.0125 J	20 (1)	20
Barium	106	105	78-118	1	20	0.323	0.335	3	20
Cadmium	100	100	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	104	100	81-118	1	20	7.63	7.94	4	20
Chromium	115	114	81-120	1	20	0.0494	0.0515	4 (1)	20
Lead	111	108	75-125	2	20	0.0771	0.0801	4	20
Magnesium	170*	161*	75-125	2	20	6.76	7.11	5	20
Nickel	106	105	86-115	1	20	0.0356	0.0375	5 (1)	20
Selenium	99	98	75-125	1	20	N.D.	N.D.	0 (1)	20

*- 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: 05/11/13 at 07:32 AM

Group Number: 1387861

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
Silver	106	106	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	115*	114*	90-111	1	20	0.0712	0.0742	4	20
Batch number: 131271848002 Sample number(s): 7046527-7046528 UNSPK: 7046527 BKG: 7046527									
Arsenic	99	101	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	101	99	78-118	1	20	0.0232	0.0231	0 (1)	20
Cadmium	99	99	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	100	97	81-118	1	20	3.32	3.31	0	20
Chromium	100	100	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	103	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	96	95	75-125	1	20	1.66	1.64	1	20
Nickel	103	102	86-115	1	20	N.D.	0.0011 J	200* (1)	20
Selenium	100	98	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	96	94	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	100	100	90-111	0	20	N.D.	0.0014 J	200* (1)	20
Batch number: 131275713002 Sample number(s): 7046506-7046518,7046520-7046526 UNSPK: 7046518 BKG: 7046518									
Mercury	97	97	80-120	0	20	N.D.	N.D.	0 (1)	20
Batch number: 131275713003 Sample number(s): 7046527-7046528 UNSPK: P046529 BKG: P046529									
Mercury	99	99	80-120	0	20	N.D.	N.D.	0 (1)	20
Batch number: 13127807902A Sample number(s): 7046506-7046518,7046520-7046526 UNSPK: 7046526									
HEM (oil & grease)	95		78-114						
Batch number: 13128807901A Sample number(s): 7046527 UNSPK: P040220 BKG: P040220									
HEM (oil & grease)	41*	52*	78-114	26	29	N.D.	N.D.	0 (1)	18

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: C131273AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7046506	100	99	99	98
7046507	101	99	99	98
7046508	101	101	99	97
7046509	100	101	99	99
7046510	101	100	99	97
7046511	101	100	99	98
7046512	101	100	99	100
7046513	100	99	100	99
7046514	100	100	100	99
7046515	100	99	100	100
7046516	101	101	100	96
7046517	99	99	99	99

*- 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: 1387861

Reported: 05/11/13 at 07:32 AM

Surrogate Quality Control

7046518	101	100	99	98
7046519	101	100	99	97
7046520	101	100	99	97
7046521	101	101	99	98
7046522	101	101	99	98
Blank	100	99	100	97
LCS	100	102	101	99
MS	100	100	101	99
MSD	101	100	100	100

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

Analysis Name: NHDES VOCs 25ml purge

Batch number: C131282AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7046523	102	101	99	97
7046524	103	102	98	97
7046525	102	101	98	96
7046526	103	102	98	97
7046527	103	102	98	96
Blank	101	101	99	98
LCS	100	100	100	99
MS	102	100	101	100
MSD	101	100	100	100

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

Analysis Name: PAHs in waters by SIM

Batch number: 13127WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7046506	97	87	91
7046507	25*	25*	28*
7046508	98	88	91
7046509	107	105	97
7046510	81	66	79
7046511	90	79	86
7046512	34*	27*	40*
7046513	29*	26*	34*
7046514	24*	21*	28*
7046515	24*	23*	28*
7046516	97	87	89
7046517	107	103	97
7046518	78	62	78
7046520	98	77	94
7046521	98	74	93
7046522	102	92	93
7046523	100	87	91
7046524	102	92	93
7046525	108	93	94
7046526	85	69	80
Blank	105	100	101
LCS	100	100	96
LCSD	101	100	97

*- 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
Reported: 05/11/13 at 07:32 AM

Group Number: 1387861

Surrogate Quality Control

Limits: 64-120 62-141 58-134

Analysis Name: PAHs in waters by SIM

Batch number: 13127WAB026

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

7046527	95	86	89
Blank	98	95	90
LCS	98	101	95
LCSD	94	99	94

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.

For Lancaster Laboratories use only
Acct. # 14739 Group # 1387861 Sample # 7046506-28
Instructions on reverse side correspond with circled numbers.

Pg. 1 of 2

1 Client Information				4 Matrix				5 Analyses Requested				6	
Facility #/SID				Ground				Preservation Code				SCR#:	
Site Address				Surface								Preservation Codes	
Exxon/Mobil PM				NPDES								H = HCl T = Thiosulfate	
Consultant/Office				Air								N = HNO ₃ B = NaOH	
Consultant PM				Oil								S = H ₂ SO ₄ O = Other	
Sampler				Total # of Containers								Remarks	
May Flower Pipeline Incident				Soil				H				Data analysis questions	
Mayflower, AL				Water				H				Lyndi Mott	
Scott Bushroe				Potable				H				ARCADIS	
Cost Center/AFE				NPDES				H					
ARCADIS				Oil				H					
Steve Barrick				Total # of Containers				H					
919-302-6799				Total # of Containers				H					
H. Van Alter / T. Milburn / D. Drost				Total # of Containers				H					
Sample Identification				Total # of Containers				H					
Date				Total # of Containers				H					
Time				Total # of Containers				H					
WS-003(Surface)050613				Total # of Containers				H					
WS-019(Surface)050613				Total # of Containers				H					
WS-002(Surface)050613				Total # of Containers				H					
WS-008C(Surface)050613				Total # of Containers				H					
WS-001(Surface)050613				Total # of Containers				H					
WS-001(0.5-1.0)050613				Total # of Containers				H					
WS-004(Surface)050613				Total # of Containers				H					
WS-004(0.5-1.0)050613				Total # of Containers				H					
WS-007(Surface)050613				Total # of Containers				H					
WS-007(0.5-1.0)050613				Total # of Containers				H					
WS-006(Surface)050613				Total # of Containers				H					
WS-04P-21-050613				Total # of Containers				H					
Turnaround Time Requested (TAT) (please circle)				Relinquished by				Received by				Date	
Standard 5 day 4 day				H. Van Alter				Date				Time	
2 hour 48 hour 24 hour				Date				Time				Date	
Data Package (circle if required)				Relinquished by				Received by				Date	
Type I - Full				Date				Time				Date	
Type VI (Raw Data)				Date				Time				Date	
NJ Reduced				Date				Time				Date	
Other				Date				Time				Date	
EDD (circle if required)				Relinquished by Commercial Carrier				Received by				Date	
Locus EIM (default)				UPS FedEx Other				Kristin				Date	
Other				Temperature Upon Receipt 0.4-4.0 °C				Custody Seals Intact?				Yes No	

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

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ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14731 Group # 1387861 For Lancaster Laboratories use only Sample # 7046506-28
Instructions on reverse side correspond with circled numbers.

Pg. 2 of 2

1 Client Information				4 Matrix		5 Analyses Requested												6 Remarks																																	
Facility #/SID <u>Mayflower Pipeline Incident</u> Site Address <u>Mayflower, AR</u> ExxonMobil PM <u>Scott Bushroe</u> Consultant/Office <u>ARCADIS</u> Consultant PM <u>Steve Barrick</u> Consultant Phone # <u>919-302-6799</u> Sampler <u>H Van Alter / T. Milburn / D. Drost</u>				Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Soil ☐ Water ☐ Oil ☐		Preservation Code <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>H</th><th>N</th><th>H</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> <tr> <td>VOCs 8260B</td><td>PAHs 8270 SIM</td><td>PCQA metal (n: v: g: m: b: s:)</td><td>HFEM (oil and grease)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												H	N	H														VOCs 8260B	PAHs 8270 SIM	PCQA metal (n: v: g: m: b: s:)	HFEM (oil and grease)													SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
H	N	H																																																	
VOCs 8260B	PAHs 8270 SIM	PCQA metal (n: v: g: m: b: s:)	HFEM (oil and grease)																																																
2 Sample Identification				3 Collected														Data analysis questions: Lyndi Mott ARCADIS																																	
Date				Time																																															
Grab				Composite																																															
WS-006(0.5-1.0)050613				5/6/13 1510																																															
WS-TB34-050613				5/6/13																																															
WS-011(1.5-2.0)050613				5/6/13 0935																																															
WS-011(5.0-5.5)050613				5/6/13 0940																																															
WS-014(1.5-2.0)050613				5/6/13 1040																																															
WS-014(4.0-4.5)050613				5/6/13 1045																																															
WS-012(1.5-2.0)050613				5/6/13 1130																																															
WS-012(4.5-5.0)050613				5/6/13 1135																																															
WS-010(1.5-2.0)050613				5/6/13 1155																																															
WS-018(1.0-1.5)050613				5/6/13 1310																																															
WS-FB-31-050613				5/6/13 1320																																															
7 Turnaround Time Requested (TAT) (please circle)						Relinquished by		Date		Time		Received by		Date		Time																																			
Standard 5 day 4 day 42 hour 48 hour 24 hour						<u>H Van Alter</u>		<u>5/6/13</u>		<u>1800</u>																																									
						Relinquished by		Date		Time		Received by		Date		Time																																			
						Relinquished by		Date		Time		Received by		Date		Time																																			
						Relinquished by		Date		Time		Received by		Date		Time																																			
8 Data Package (circle if required)						Relinquished by Commercial Carrier						Received by																																							
Type I - Full Type VI (Raw Data) NJ Reduced Other _____						EDD (circle if required) Locus EIM (default) Other _____						UPS _____ <u>FedEx</u> _____ Other _____ Temperature Upon Receipt <u>0.4-4.0°C</u>						Received by <u>Kristi</u> Date <u>5-7-13</u> Time <u>0825</u>																																	
												Custody Seals Intact? <u>Yes</u> No																																							

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Rachel L. Creamer

A# 14739, Gr. 1387861, LLA's 7046506-28

From: Rachel L. Creamer
Sent: Tuesday, May 07, 2013 10:51 AM
To: 'Mott, Lyndi'
Cc: Kathy Klinefelter
Subject: Surface Waters Received at the Lab this morning

Attachments: 20130507104639288.pdf



2013050710463928
8.pdf (1 MB)

Lyndi,

I attached the chains and documentation log for the surface waters. There was one broken O&G bottle for WS-011(1.5-2.0) in the shipment. We should be good as long as the batch doesn't need to be repeated for any reason. If it should we'll be in touch.

Thanks
Rachel

-----Original Message-----

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Tuesday, May 07, 2013 10:47 AM
To: Rachel L. Creamer
Subject:

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

Scan Date: 05.07.2013 10:46:39 (-0400)
Queries to: 39Scanner@lancasterlabs.com

G-1387861
Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 5-7-13Custody Seal Present *: YES NOTime of Receipt: 0825* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: E50

Package:

Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.5°	TB	WI	Y	B	
2	↓	0.7°	↓	↓	↓	↓	
3	↓	0.4°	↓	↓	↓	↓	
4	↓	4.0°	↓	↓	↓	↓	
5	↓	1.8°	↓	↓	↓	↓	
6	↓	0.4°	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

WS-011 (1.5-2.0) received (1) Oil & Grease bottle brokenDUP-021 says DUP-021 (surface)
@ km 2 5-7-13

Unpacker Signature/Emp#:

Kristin [Signature] 2123Date/Time: 5-7-13 0945

Issued by Dept. 6042 Management

2174.06

G-1387861
Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 5-7-13Custody Seal Present *: YES NOTime of Receipt: 0825* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: E50Package: 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
7 ⁺	DT121	2.4°	TB	WI	Y	B	
8 ⁺	↓	1.3°	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Kristine L. 2123

Date/Time:

5-7-13 0945

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

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

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