

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 09, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/06/2013

Group Number: 1387725

SDG: PEH19

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)050513 Grab Surface Water	7045928
WS-002(SURFACE)050513 Grab Surface Water	7045929
WS-005(SURFACE)050513 Grab Surface Water	7045930
WS-008(SURFACE)050513 Grab Surface Water	7045931
WS-008(SURFACE)MS050513 Grab Surface Water	7045932
WS-008(SURFACE)MSD050513 Grab Surface Water	7045933
WS-008(SURFACE)DUP050513 Grab Surface Water	7045934
WS-001(SURFACE)050513 Grab Surface Water	7045935
WS-001(0.5-1.0)050513 Grab Surface Water	7045936
WS-004(SURFACE)050513 Grab Surface Water	7045937
WS-004(0.5-1.0)050513 Grab Surface Water	7045938
WS-007(SURFACE)050513 Grab Surface Water	7045939
WS-007(0.5-1.0)050513 Grab Surface Water	7045940
WS-006(SURFACE)050513 Grab Surface Water	7045941
WS-006(0.5-1.0)050513 Grab Surface Water	7045942
WS-TB34-050513 Water	7045943

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

ELECTRONIC COPY TO
ARCADIS

Attn: Stephen Barrick

ELECTRONIC COPY TO
ARCADIS

Attn: Lyndi Mott

ELECTRONIC COPY TO
ExxonMobil

Attn: Scott Bushroe

ELECTRONIC COPY TO
ExxonMobil

Attn: Michael J. Firth

COPY TO
ELECTRONIC ARCADIS
COPY TO

Attn: Emily Leamer

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1387725

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

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

Batch #: 13126WAD026 (Sample number(s): 7045928-7045933, 7045935-7045942 UNSPK: 7045931)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7045937, 7045938, 7045939, 7045940

Sample #s: 7045937, 7045938, 7045939, 7045940

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

SW-846 6010B, Metals

Batch #: 131261848001 (Sample number(s): 7045928-7045942 UNSPK: 7045931 BKG: 7045931)

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

Sample Description: WS-003 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045928
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 08:10 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF3 SDG#: PEH19-01

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) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045928
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 08:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF3 SDG#: PEH19-01

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	0.058	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	N.D.	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	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	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	N.D.	0.012	0.058	1
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	0.0238	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.24	0.0640	0.200	1

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

Sample Description: WS-003 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045928
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 08:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF3 SDG#: PEH19-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	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	1.62	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 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

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	C131261AA	05/06/2013 17:51	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 17:51	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 03:08	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:38	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 06:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-002 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045929
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF2 SDG#: PEH19-02

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

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

Sample Description: WS-002 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045929
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF2 SDG#: PEH19-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.6	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	0.0207	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.21	0.0640	0.200	1

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

Sample Description: WS-002 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045929
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF2 SDG#: PEH19-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.59	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 18:13	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 18:13	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 03:38	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:42	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045930
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF5 SDG#: PEH19-03

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-005(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045930
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF5 SDG#: PEH19-03

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.	0.014	0.071	1
08357	Acenaphthylene	208-96-8	N.D.	0.014	0.071	1
08357	Anthracene	120-12-7	N.D.	0.014	0.071	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.014	0.071	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.014	0.071	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.014	0.071	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.014	0.071	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.014	0.071	1
08357	Chrysene	218-01-9	N.D.	0.014	0.071	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.014	0.071	1
08357	Fluoranthene	206-44-0	N.D.	0.014	0.071	1
08357	Fluorene	86-73-7	N.D.	0.014	0.071	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.014	0.071	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.014	0.071	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.014	0.071	1
08357	Naphthalene	91-20-3	N.D.	0.042	0.071	1
08357	Phenanthrene	85-01-8	N.D.	0.042	0.071	1
08357	Pyrene	129-00-0	N.D.	0.014	0.071	1
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	0.0214	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.34	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045930
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF5 SDG#: PEH19-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.62	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0015 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

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	C131261AA	05/06/2013 18:35	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 18:35	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 04:07	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:53	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045931
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04BKG

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	0.6	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.2 J	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.3 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) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045931
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04BKG

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	1.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.3 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.2 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	1.7	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.016 J	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	0.015 J	0.012	0.058	1
08357	Fluorene	86-73-7	0.033 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	0.13	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	0.15	0.012	0.058	1
08357	Naphthalene	91-20-3	0.086	0.035	0.058	1
08357	Phenanthrene	85-01-8	0.052 J	0.035	0.058	1
08357	Pyrene	129-00-0	0.022 J	0.012	0.058	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	51.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0420	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	11.8	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045931
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0027 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.38	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0093 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0019 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C131261AA	05/06/2013 18:58	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 18:58	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 01:40	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:17	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)MS050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045932
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	49	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.5	0.1	0.5	1
02898	Benzene	71-43-2	5.7	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.1	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.1	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.1	0.1	0.5	1
02898	Bromoform	75-25-2	5.2	0.1	0.5	1
02898	Bromomethane	74-83-9	5.1	0.1	0.5	1
02898	2-Butanone	78-93-3	44	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.3	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.4	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.7	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.5	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.2	0.1	0.5	1
02898	Chloroethane	75-00-3	5.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	4.8	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.2	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.2	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.2	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.1	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.0	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.1	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.2	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.1	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.5	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.3	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.1	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.8	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.2	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.4	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.6	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.3	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.1	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.3	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.4	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.3	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.9	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.9	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.6	0.1	0.5	1
02898	Freon 113	76-13-1	5.8	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.1	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.5	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.9	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	26	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.3	0.2	0.5	1

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

Sample Description: WS-008 (SURFACE) MS050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045932
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.4	0.1	0.5	1
02898	Styrene	100-42-5	5.4	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.2	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.3	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	27	2.0	5.0	1
02898	Toluene	108-88-3	6.4	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.0	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.4	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.5	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.3	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.2	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.7	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.0	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.011	0.057	1
08357	Acenaphthylene	208-96-8	1.2	0.011	0.057	1
08357	Anthracene	120-12-7	1.1	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	0.98	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	0.74	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.011	0.057	1
08357	Chrysene	218-01-9	1.0	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	0.75	0.011	0.057	1
08357	Fluoranthene	206-44-0	1.2	0.011	0.057	1
08357	Fluorene	86-73-7	1.2	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	1.3	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	1.3	0.011	0.057	1
08357	Naphthalene	91-20-3	1.2	0.034	0.057	1
08357	Phenanthrene	85-01-8	1.2	0.034	0.057	1
08357	Pyrene	129-00-0	1.1	0.011	0.057	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	69.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.152	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0495	0.00036	0.0050	1
01750	Calcium	7440-70-2	15.8	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) MS050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045932
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.202	0.0011	0.0150	1
07055	Lead	7439-92-1	0.156	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.32	0.0606	0.100	1
07061	Nickel	7440-02-0	0.521	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0463	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.504	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00090	0.000070	0.00020	1

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	C131261AA	05/06/2013 19:21	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 19:21	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 02:10	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:27	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)MSD050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045933
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	49	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.5	0.1	0.5	1
02898	Benzene	71-43-2	6.0	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.3	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.1	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.2	0.1	0.5	1
02898	Bromoform	75-25-2	5.2	0.1	0.5	1
02898	Bromomethane	74-83-9	5.0	0.1	0.5	1
02898	2-Butanone	78-93-3	44	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.6	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.7	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.7	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.6	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.4	0.1	0.5	1
02898	Chloroethane	75-00-3	5.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.4	0.1	0.5	1
02898	Chloromethane	74-87-3	4.9	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.4	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.5	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.3	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.2	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.1	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.5	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.3	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.5	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.5	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.1	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.0	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.5	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.6	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.5	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.2	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.4	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.6	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.4	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.0	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.0	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.7	0.1	0.5	1
02898	Freon 113	76-13-1	5.9	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.3	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.6	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.7	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.9	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	26	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.5	0.2	0.5	1

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

Sample Description: WS-008 (SURFACE) MSD050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045933
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.7	0.1	0.5	1
02898	Styrene	100-42-5	5.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.3	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.4	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.4	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	26	2.0	5.0	1
02898	Toluene	108-88-3	6.8	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.1	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.3	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.5	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.7	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.5	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.2	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.3	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.9	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.2	0.012	0.060	1
08357	Acenaphthylene	208-96-8	1.3	0.012	0.060	1
08357	Anthracene	120-12-7	1.2	0.012	0.060	1
08357	Benzo(a)anthracene	56-55-3	1.2	0.012	0.060	1
08357	Benzo(a)pyrene	50-32-8	1.0	0.012	0.060	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.012	0.060	1
08357	Benzo(g,h,i)perylene	191-24-2	0.71	0.012	0.060	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.012	0.060	1
08357	Chrysene	218-01-9	1.1	0.012	0.060	1
08357	Dibenz(a,h)anthracene	53-70-3	0.77	0.012	0.060	1
08357	Fluoranthene	206-44-0	1.2	0.012	0.060	1
08357	Fluorene	86-73-7	1.3	0.012	0.060	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	0.012	0.060	1
08357	1-Methylnaphthalene	90-12-0	1.4	0.012	0.060	1
08357	2-Methylnaphthalene	91-57-6	1.4	0.012	0.060	1
08357	Naphthalene	91-20-3	1.3	0.036	0.060	1
08357	Phenanthrene	85-01-8	1.2	0.036	0.060	1
08357	Pyrene	129-00-0	1.2	0.012	0.060	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	70.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.152	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0493	0.00036	0.0050	1
01750	Calcium	7440-70-2	16.0	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) MSD050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045933
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.202	0.0011	0.0150	1
07055	Lead	7439-92-1	0.156	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.40	0.0606	0.100	1
07061	Nickel	7440-02-0	0.519	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.146	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0471	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.499	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00091	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 19:43	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 19:43	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 02:39	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:31	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-008 (SURFACE) DUP050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045934
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 09:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF8 SDG#: PEH19-04DUP

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	52.2	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	0.0429	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	11.9	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0024 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.44	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0096 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	0.0026 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:24	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-001(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045935
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 10:50 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF1 SDG#: PEH19-05

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)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045935
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 10:50 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF1 SDG#: PEH19-05

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
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	0.0392	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.49	0.0640	0.200	1

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

Sample Description: WS-001(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045935
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 10:50 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF1 SDG#: PEH19-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0039 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.82	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0030 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0054	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C131261AA	05/06/2013 20:06	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 20:06	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 11:20	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 20:56	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045936
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 10:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0511 SDG#: PEH19-06

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)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045936
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 10:55 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0511 SDG#: PEH19-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0390	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.39	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045936
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 10:55 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-0511 SDG#: PEH19-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0034 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.81	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	0.0049 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 20:28	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 20:28	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 11:50	Joseph M Gambler	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 21:00	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-004(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045937
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF4 SDG#: PEH19-07

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	7.1	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.1 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.1 J	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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	0.2 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)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045937
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF4 SDG#: PEH19-07

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	5.7	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	0.7	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.9	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.19	0.011	0.055	1
08357	Acenaphthylene	208-96-8	0.021 J	0.011	0.055	1
08357	Anthracene	120-12-7	0.11	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	0.066	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	0.026 J	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.044 J	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	0.016 J	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	0.017 J	0.011	0.055	1
08357	Chrysene	218-01-9	0.088	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	0.41	0.011	0.055	1
08357	Fluorene	86-73-7	0.31	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.014 J	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	0.31	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	0.47	0.011	0.055	1
08357	Naphthalene	91-20-3	0.64	0.033	0.055	1
08357	Phenanthrene	85-01-8	1.0	0.033	0.055	1
08357	Pyrene	129-00-0	0.25	0.011	0.055	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	43.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0224	0.0068	0.0200	1
07046	Barium	7440-39-3	0.307	0.00033	0.0050	1

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

Sample Description: WS-004 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045937
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF4 SDG#: PEH19-07

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.33	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0381	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0371	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.01	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0332	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	0.0562	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00011 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 20:51	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 20:51	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 12:20	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 21:04	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045938
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0514 SDG#: PEH19-08

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	7.0	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.1 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.2 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	0.2 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)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045938
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0514 SDG#: PEH19-08

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	6.7	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	0.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.1	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.036 J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.022 J	0.011	0.053	1
08357	Anthracene	120-12-7	0.017 J	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.011 J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	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	0.019 J	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.015 J	0.011	0.053	1
08357	Fluorene	86-73-7	0.077	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	0.28	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.29	0.011	0.053	1
08357	Naphthalene	91-20-3	0.16	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.056	0.032	0.053	1
08357	Pyrene	129-00-0	0.023 J	0.011	0.053	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	44.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0211	0.0068	0.0200	1
07046	Barium	7440-39-3	0.317	0.00033	0.0050	1

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

Sample Description: WS-004(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045938
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-0514 SDG#: PEH19-08

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.38	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0415	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0389	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.33	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0354	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	0.0614	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00010 J	0.000070	0.00020	1

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	C131261AA	05/06/2013 21:13	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 21:13	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 12:49	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 21:07	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-007(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045939
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:20 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF7 SDG#: PEH19-09

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	7.1	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.1 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.0 J	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.2 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	0.1 J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.2 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-007(SURFACE)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045939
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:20 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF7 SDG#: PEH19-09

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	5.3	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.9	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.2	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.025 J	0.011	0.054	1
08357	Acenaphthylene	208-96-8	0.015 J	0.011	0.054	1
08357	Anthracene	120-12-7	0.022 J	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	0.024 J	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	0.022 J	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	0.062	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	0.019 J	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	0.021 J	0.011	0.054	1
08357	Chrysene	218-01-9	0.067	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	0.13	0.011	0.054	1
08357	Fluorene	86-73-7	0.060	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.018 J	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	0.12	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	0.12	0.011	0.054	1
08357	Naphthalene	91-20-3	0.083	0.032	0.054	1
08357	Phenanthrene	85-01-8	0.068	0.032	0.054	1
08357	Pyrene	129-00-0	0.094	0.011	0.054	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	46.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0242	0.0068	0.0200	1
07046	Barium	7440-39-3	0.352	0.00033	0.0050	1

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

Sample Description: WS-007 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045939
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:20 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF7 SDG#: PEH19-09

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.62	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0447	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0407	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.70	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0375	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	0.0674	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00011 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 21:35	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 21:35	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 13:19	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 21:11	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045940
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:25 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0517 SDG#: PEH19-10

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	6.7	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.1 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.1 J	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.2 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	0.1 J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.2 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-007(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045940
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:25 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0517 SDG#: PEH19-10

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	0.1 J	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	5.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.9	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.3	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.038 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.046 J	0.010	0.051	1
08357	Anthracene	120-12-7	0.080	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.22	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.15	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.55	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.13	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.16	0.010	0.051	1
08357	Chrysene	218-01-9	0.55	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.027 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	0.080	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.19	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.32	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.30	0.010	0.051	1
08357	Naphthalene	91-20-3	0.17	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.29	0.031	0.051	1
08357	Pyrene	129-00-0	0.91	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	47.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0241	0.0068	0.0200	1
07046	Barium	7440-39-3	0.352	0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045940
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:25 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-0517 SDG#: PEH19-10

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.92	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0426	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0444	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.69	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0360	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	0.0652	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00011 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 21:58	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 21:58	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 13:48	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 21:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-006 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045941
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF6 SDG#: PEH19-11

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) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045941
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-SRF6 SDG#: PEH19-11

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.	0.012	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	N.D.	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	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	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	N.D.	0.012	0.058	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	19.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0711	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.95	0.0640	0.200	1

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

Sample Description: WS-006 (SURFACE) 050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045941
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-SRF6 SDG#: PEH19-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0067 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0080 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.23	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0062 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	0.0100	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 22:20	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 22:20	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 14:18	Joseph M Gambler	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 21:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045942
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:40 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0516 SDG#: PEH19-12

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

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

Sample Description: WS-006(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045942
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:40 by HVA

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-0516 SDG#: PEH19-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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	0.058	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	N.D.	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	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	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	N.D.	0.012	0.058	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0496	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.68	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)050513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045942
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013 11:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 05/06/2013 11:10

PO Box 4416

Reported: 05/09/2013 13:22

Houston TX 77210-4416

-0516 SDG#: PEH19-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0045 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0055 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.01	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0041 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0075	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131261AA	05/06/2013 22:43	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 22:43	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13126WAD026	05/08/2013 14:48	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13126WAD026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131276256001	05/07/2013 05:12	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131261848001	05/06/2013 21:21	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131265713001	05/07/2013 07:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131261848001	05/06/2013 12:10	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131265713001	05/06/2013 16:25	Nelli S Markaryan	1

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

Sample Description: WS-TB34-050513 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045943
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-TB34 SDG#: PEH19-13TB*

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-TB34-050513 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045943
LLI Group # 1387725
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/05/2013

ExxonMobil

Submitted: 05/06/2013 11:10

Mobil Pipeline Company

Reported: 05/09/2013 13:22

PO Box 4416

Houston TX 77210-4416

-TB34 SDG#: PEH19-13TB*

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	C131261AA	05/06/2013 17:28	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131261AA	05/06/2013 17:28	Kerri E Legerlotz	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/09/13 at 01:22 PM

Group Number: 1387725

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: C131261AA	Sample number(s): 7045928-7045933, 7045935-7045943								
Acetone	N.D.	3.0	5.0	ug/l	110		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	114		61-130		
Benzene	N.D.	0.1	0.5	ug/l	108		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	108		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	106		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	112		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	101		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	115		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	111		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	101		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	109		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	95		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	107		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	108		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	109		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	107		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	90		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	106		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	118		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	129		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	110		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	107		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	109		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	111		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	112		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	105		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	98		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	119		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	106		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: 1387725

Reported: 05/09/13 at 01:22 PM

<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>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	109		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	104		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	108		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	112		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Styrene	N.D.	0.1	0.5	ug/l	110		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	106		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	113		65-131		
Toluene	N.D.	0.1	0.5	ug/l	108		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	101		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	103		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	110		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	108		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	102		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	105		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	99		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	108		80-120		

Batch number: 13126WAD026

Sample number(s): 7045928-7045933, 7045935-7045942

Acenaphthene	N.D.	0.010	0.050	ug/l	103		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	110		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	96		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	92		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	88		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	97		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	98		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	99		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	98		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	95		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	107		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	105		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	99		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	106		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	103		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	98		71-116		

Batch number: 131261848001

Sample number(s): 7045928-7045942

Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	101		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	99		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	105		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	97		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	96		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	100		90-110		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387725

Reported: 05/09/13 at 01:22 PM

<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: 131265713001	Sample number(s): 7045928-7045942								
Mercury	N.D.	0.00007	0.00020	mg/l	86		80-120		
		0							

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: C131261AA	Sample number(s): 7045928-7045933, 7045935-7045943 UNSPK: 7045931								
Acetone	132	130	57-163	1	30				
Allyl Chloride	109	111	67-139	2	30				
Benzene	100	106	87-126	5	30				
Bromobenzene	103	107	80-123	4	30				
Bromochloromethane	102	102	82-125	0	30				
Bromodichloromethane	102	104	82-133	3	30				
Bromoform	104	105	60-138	1	30				
Bromomethane	102	101	41-145	1	30				
2-Butanone	115	113	63-146	2	30				
n-Butylbenzene	107	112	83-131	5	30				
sec-Butylbenzene	109	113	84-128	4	30				
tert-Butylbenzene	115	113	84-135	1	30				
Carbon Tetrachloride	110	112	81-148	2	30				
Chlorobenzene	105	107	78-133	2	30				
Chloroethane	102	102	70-139	0	30				
Chloroform	106	107	86-136	2	30				
Chloromethane	96	97	55-152	1	30				
2-Chlorotoluene	104	109	81-120	4	30				
4-Chlorotoluene	104	110	82-119	5	30				
1,2-Dibromo-3-chloropropane	113	111	43-143	1	30				
Dibromochloromethane	104	106	79-125	2	30				
1,2-Dibromoethane	102	103	84-127	1	30				
Dibromomethane	101	101	83-126	0	30				
1,2-Dichlorobenzene	103	107	83-117	4	30				
1,3-Dichlorobenzene	105	109	81-118	5	30				
1,4-Dichlorobenzene	102	107	79-120	5	30				
Dichlorodifluoromethane	90	89	28-136	1	30				
1,1-Dichloroethane	106	110	88-136	4	30				
1,2-Dichloroethane	102	103	82-135	1	30				
1,1-Dichloroethene	117	120	83-150	3	30				
cis-1,2-Dichloroethene	105	107	82-129	2	30				
trans-1,2-Dichloroethene	107	110	88-127	3	30				
Dichlorofluoromethane	131	132	59-176	0	30				
1,2-Dichloropropane	107	110	91-126	3	30				
1,3-Dichloropropane	102	103	80-127	1	30				
2,2-Dichloropropane	105	108	80-134	3	30				
1,1-Dichloropropene	108	112	86-139	4	30				
cis-1,3-Dichloropropene	106	108	74-132	2	30				
trans-1,3-Dichloropropene	98	101	71-128	2	30				
Ethyl ether	98	100	67-127	1	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: 05/09/13 at 01:22 PM

Group Number: 1387725

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	107	109	80-140	3	30				
Freon 113	115	118	87-158	3	30				
Hexachlorobutadiene	102	106	65-128	4	30				
Isopropylbenzene	110	112	81-133	2	30				
p-Isopropyltoluene	109	113	84-124	3	30				
Methyl Tertiary Butyl Ether	97	99	82-132	2	30				
4-Methyl-2-Pentanone	103	106	69-149	2	30				
Methylene Chloride	107	109	84-122	2	30				
n-Propylbenzene	108	113	79-131	5	30				
Styrene	108	110	63-151	2	30				
1,1,1,2-Tetrachloroethane	103	105	87-126	2	30				
1,1,2,2-Tetrachloroethane	101	108	75-131	6	30				
Tetrachloroethene	106	108	75-129	1	30				
Tetrahydrofuran	107	104	56-154	3	30				
Toluene	98	106	83-127	6	30				
1,2,3-Trichlorobenzene	97	101	73-125	4	30				
1,2,4-Trichlorobenzene	101	106	77-120	5	30				
1,1,1-Trichloroethane	108	110	85-140	2	30				
1,1,2-Trichloroethane	110	113	85-129	3	30				
Trichloroethene	107	109	85-131	2	30				
Trichlorofluoromethane	104	104	67-161	0	30				
1,2,3-Trichloropropane	100	106	76-120	5	30				
1,2,4-Trimethylbenzene	107	111	87-126	4	30				
1,3,5-Trimethylbenzene	107	112	89-129	4	30				
Vinyl Chloride	101	102	65-151	1	30				
Xylene (Total)	106	109	81-137	3	30				

Batch number: 13126WAD026 Sample number(s): 7045928-7045933,7045935-7045942 UNSPK: 7045931

Acenaphthene	99	101	59-127	7	30
Acenaphthylene	105	107	33-146	7	30
Anthracene	101	101	69-119	4	30
Benzo(a)anthracene	101	99	67-124	3	30
Benzo(a)pyrene	87	87	64-123	5	30
Benzo(b)fluoranthene	94	96	61-133	8	30
Benzo(g,h,i)perylene	66	60	36-138	5	30
Benzo(k)fluoranthene	97	96	59-128	5	30
Chrysene	92	91	62-118	5	30
Dibenz(a,h)anthracene	66	65	32-141	3	30
Fluoranthene	100	103	65-123	7	30
Fluorene	102	105	69-124	8	30
Indeno(1,2,3-cd)pyrene	73	68	29-143	3	30
1-Methylnaphthalene	106	108	67-117	7	30
2-Methylnaphthalene	103	105	71-126	6	30
Naphthalene	102	105	58-131	8	30
Phenanthrene	98	99	67-117	6	30
Pyrene	98	97	59-125	3	30

Batch number: 131261848001 Sample number(s): 7045928-7045942 UNSPK: 7045931 BKG: 7045931

Arsenic	101	102	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	100	101	78-118	0	20	0.0420	0.0429	2	20
Cadmium	99	99	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	99	106	81-118	2	20	11.8	11.9	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

Group Number: 1387725

Reported: 05/09/13 at 01:22 PM

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Chromium	100	100	81-120	0	20	0.0027 J	0.0024 J	14 (1)	20
Lead	104	104	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	97	101	75-125	1	20	5.38	5.44	1	20
Nickel	102	102	86-115	0	20	0.0093 J	0.0096 J	3 (1)	20
Selenium	99	97	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	93	94	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	100	99	90-111	1	20	0.0019 J	0.0026 J	34* (1)	20

Batch number: 131265713001

Sample number(s): 7045928-7045942 UNSPK: 7045931 BKG: 7045931

Mercury	90	91	80-120	0	20	N.D.	N.D.	0 (1)	20
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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: C131261AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
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7045928	100	100	100	99
7045929	101	101	101	100
7045930	101	100	100	98
7045931	99	99	100	100
7045932	99	99	101	100
7045933	100	97	100	99
7045935	100	100	100	98
7045936	100	100	99	97
7045937	99	100	99	100
7045938	99	101	99	101
7045939	99	98	100	100
7045940	99	99	100	100
7045941	101	101	99	98
7045942	101	100	100	99
7045943	100	99	99	99
Blank	100	102	100	99
LCS	100	99	101	100
MS	99	99	101	100
MSD	100	97	100	99

Limits:	77-114	74-113	77-110	78-110
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Analysis Name: PAHs in waters by SIM

Batch number: 13126WAD026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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7045928	95	85	88
7045929	92	89	87

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387725

Reported: 05/09/13 at 01:22 PM

Surrogate Quality Control

7045930	89	84	83
7045931	95	94	92
7045932	94	98	92
7045933	93	98	92
7045935	77	64	73
7045936	75	65	73
7045937	50*	41*	58
7045938	60*	41*	68
7045939	58*	43*	62
7045940	52*	46*	64
7045941	78	69	74
7045942	92	88	90
Blank	87	92	86
LCS	92	99	93
MS	94	98	92
MSD	93	98	92

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.

eurofins

Acct. # 14739

For Lancaster La
Group # 1387725

laboratories use only
Sample # 205928-43

Page 1 of 2

Instructions on reverse side correspond with circled numbers

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

Issued by Dept. 40 Management

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

7053.01

Acct. # 17739 Group # 1857725 For Lancaster Laboratories use only Sample # 7045928-43
Instructions on reverse side correspond with circled numbers.

Page 642

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

Issued by Dept. 40 Management
7053.01

G-138725

Environmental Sample Administration
Receipt Documentation LogClient/Project: ExxonMobilShipping Container Sealed: YES NODate of Receipt: 5/6/13Custody Seal Present *: YES NOTime of Receipt: 1110

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

Source Code: 01 (SW)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	2783	2.0	TB	WI	Y	B	
2	↓	1.9	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Crawford 964 Date/Time: 5/6/13 1130
430
011-5/6/13 ⑥

Issued by Dept. 6042 Management

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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