

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

April 30, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/26/2013

Group Number: 1385745

SDG: PEG72

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LLI) #

WS-017(1.5-2.0)042413 Grab Surface Water	7036210
WS-017(4.5-5.0)042413 Grab Surface Water	7036211
WS-016(1.5-2.0)042413 Grab Surface Water	7036212
WS-016(4.5-5.0)042413 Grab Surface Water	7036213
WS-015(1.5-2.0)042413 Grab Surface Water	7036214
WS-015(5.5-6.0)042413 Grab Surface Water	7036215
WS-014(1.5-2.0)042413 Grab Surface Water	7036216
WS-014(4.5-5.0)042413 Grab Surface Water	7036217
WS-013(1.5-2.0)042413 Grab Surface Water	7036218
WS-013(4.0-4.5)042413 Grab Surface Water	7036219
WS-011(1.5-2.0)042413 Grab Surface Water	7036220
WS-011(5.5-6.0)042413 Grab Surface Water	7036221
WS-012(1.5-2.0)042413 Grab Surface Water	7036222
WS-012(5.0-5.5)042413 Grab Surface Water	7036223
WS-010(1.5-2.0)042413 Grab Surface Water	7036224
WS-018(1.5-2.0)042413 Grab Surface Water	7036225
WS-018(4.0-4.5)042413 Grab Surface Water	7036226
WS-TB22-042413 Water	7036227
FB-04-042413 Grab Water	7036228

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

ELECTRONIC ARCADIS
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Attn: Stephen Barrick

Attn: Lyndi Mott

ELECTRONIC ExxonMobil
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ELECTRONIC ARCADIS
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Attn: Scott Bushroe

Attn: Michael J. Firth

Attn: Emily Leamer

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1385745

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:**SW-846 8260B 25mL purge, GC/MS Volatiles**

Batch #: G131171AA (Sample number(s): 7036210-7036221 UNSPK: P34033)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Tetrahydrofuran

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

Batch #: G131181AA (Sample number(s): 7036222-7036227 UNSPK: P33310)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Tetrahydrofuran

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 2-Butanone, Tetrahydrofuran, Trichloroethene, 4-Chlorotoluene, 1,2-Dibromo-3-chloropropane, cis-1,2-Dichloroethene, 2-Chlorotoluene, sec-Butylbenzene, p-Isopropyltoluene, 1,3-Dichlorobenzene

SW-846 6010B, Metals

Batch #: 131161848001 (Sample number(s): 7036210-7036226, 7036228 UNSPK: 7036210 BKG: 7036210)

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

EPA 1664A, Wet Chemistry

Batch #: 13116807901A (Sample number(s): 7036210-7036226 UNSPK: 7036210)

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

Sample Description: WS-017(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036210
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:20 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24171 SDG#: PEG72-01

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-017(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036210
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24171 SDG#: PEG72-01

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.	0.010	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	17.9	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	0.0187	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.08	0.0640	0.200	1

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

Sample Description: WS-017(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036210
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24171 SDG#: PEG72-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.87	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0025 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.7 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 03:19	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 03:19	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 14:19	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 16:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 06:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-017(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036211
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:45 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24172 SDG#: PEG72-02

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-017(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036211
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24172 SDG#: PEG72-02

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.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0178	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.02	0.0640	0.200	1

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

Sample Description: WS-017(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036211
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24172 SDG#: PEG72-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.84	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0022 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 03:40	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 03:40	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 14:47	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 16:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 06:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-016(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036212
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:00 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24161 SDG#: PEG72-03

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-016(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036212
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:00 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24161 SDG#: PEG72-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0182	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.42	0.0640	0.200	1

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

Sample Description: WS-016(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036212
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24161 SDG#: PEG72-03

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	1.69	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 04:02	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 04:02	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 15:14	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 16:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-016(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036213
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:15 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24162 SDG#: PEG72-04

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

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

Sample Description: WS-016(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036213
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:15 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24162 SDG#: PEG72-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0183	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.37	0.0640	0.200	1

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

Sample Description: WS-016(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036213
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24162 SDG#: PEG72-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.65	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0017 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0014 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 04:23	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 04:23	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 15:41	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 16:59	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-015(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036214
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:45 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24151 SDG#: PEG72-05

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-015(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036214
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24151 SDG#: PEG72-05

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.	0.010	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	15.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0180	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.40	0.0640	0.200	1

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

Sample Description: WS-015(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036214
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24151 SDG#: PEG72-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 04:45	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 04:45	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 16:09	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:03	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-015(5.5-6.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036215
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:55 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24152 SDG#: PEG72-06

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-015(5.5-6.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036215
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24152 SDG#: PEG72-06

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	15.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0183	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-015(5.5-6.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036215
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24152 SDG#: PEG72-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.66	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 05:07	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 05:07	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 16:36	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-014(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036216
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:35 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24141 SDG#: PEG72-07

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

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

Sample Description: WS-014(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036216
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:35 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24141 SDG#: PEG72-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	15.6	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	0.0180	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.44	0.0640	0.200	1

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

Sample Description: WS-014(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036216
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:35 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24141 SDG#: PEG72-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.69	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 05:28	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 05:28	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 17:03	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-014(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036217
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:50 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24142 SDG#: PEG72-08

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

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

Sample Description: WS-014(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036217
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24142 SDG#: PEG72-08

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	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	15.5	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	0.0183	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.44	0.0640	0.200	1

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

Sample Description: WS-014(4.5-5.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036217
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24142 SDG#: PEG72-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 05:50	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 05:50	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 17:31	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:18	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-013(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036218
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:20 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24131 SDG#: PEG72-09

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	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-013(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036218
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24131 SDG#: PEG72-09

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	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	12.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0184	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.57	0.0640	0.200	1

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

Sample Description: WS-013(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036218
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24131 SDG#: PEG72-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.46	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	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 06:11	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 06:11	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 17:58	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:23	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-013(4.0-4.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036219
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:35 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24132 SDG#: PEG72-10

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	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-013(4.0-4.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036219
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:35 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24132 SDG#: PEG72-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	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	12.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0185	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.55	0.0640	0.200	1

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

Sample Description: WS-013(4.0-4.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036219
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:35 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24132 SDG#: PEG72-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.45	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.4 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 06:33	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 06:33	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 18:26	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:27	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-011(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036220
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:00 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24111 SDG#: PEG72-11

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-011(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036220
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24111 SDG#: PEG72-11

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.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
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	0.0213	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.17	0.0640	0.200	1

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

Sample Description: WS-011(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036220
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24111 SDG#: PEG72-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.61	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	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 06:54	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 06:54	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 18:53	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-011(5.5-6.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036221
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:15 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24112 SDG#: PEG72-12

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

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

Sample Description: WS-011(5.5-6.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036221
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:15 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24112 SDG#: PEG72-12

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.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.5	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	0.0209	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.16	0.0640	0.200	1

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

Sample Description: WS-011(5.5-6.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036221
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24112 SDG#: PEG72-12

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	0.0011 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.61	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0019 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131171AA	04/28/2013 07:16	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131171AA	04/28/2013 07:16	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 19:21	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:37	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

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

Sample Description: WS-012(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036222
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:45 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24121 SDG#: PEG72-13

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

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

Sample Description: WS-012(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036222
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24121 SDG#: PEG72-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0218	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.12	0.0640	0.200	1

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

Sample Description: WS-012(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036222
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24121 SDG#: PEG72-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.59	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0019 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131181AA	04/28/2013 17:06	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131181AA	04/28/2013 17:06	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 19:48	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036222
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24121 SDG#: PEG72-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

Sample Description: WS-012(5.0-5.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036223
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:55 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24122 SDG#: PEG72-14

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

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

Sample Description: WS-012(5.0-5.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036223
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24122 SDG#: PEG72-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	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	14.2	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	0.0210	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.08	0.0640	0.200	1

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

Sample Description: WS-012(5.0-5.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036223
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24122 SDG#: PEG72-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0011 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.57	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131181AA	04/28/2013 17:27	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131181AA	04/28/2013 17:27	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 20:15	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 17:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036223
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 13:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24122 SDG#: PEG72-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

Sample Description: WS-010(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036224
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:20 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24010 SDG#: PEG72-15

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

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

Sample Description: WS-010(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036224
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24010 SDG#: PEG72-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
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	0.0297	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.23	0.0640	0.200	1

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

Sample Description: WS-010(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036224
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24010 SDG#: PEG72-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0016 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0019 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131181AA	04/28/2013 17:48	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131181AA	04/28/2013 17:48	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 20:43	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 18:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036224
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24010 SDG#: PEG72-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

Sample Description: WS-018(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036225
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:00 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24181 SDG#: PEG72-16

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

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

Sample Description: WS-018(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036225
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24181 SDG#: PEG72-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	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	0.0228	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-018(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036225
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24181 SDG#: PEG72-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0011 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.64	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 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	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131181AA	04/28/2013 18:10	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131181AA	04/28/2013 18:10	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 21:10	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 18:06	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1

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

Sample Description: WS-018(1.5-2.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036225
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24181 SDG#: PEG72-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

Sample Description: WS-018(4.0-4.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036226
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:10 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

24182 SDG#: PEG72-17

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

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

Sample Description: WS-018(4.0-4.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036226
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:10 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24182 SDG#: PEG72-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.5	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	0.0215	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.15	0.0640	0.200	1

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

Sample Description: WS-018(4.0-4.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036226
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:10 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24182 SDG#: PEG72-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
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	1.61	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	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131181AA	04/28/2013 18:31	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131181AA	04/28/2013 18:31	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAE026	04/28/2013 21:38	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAE026	04/26/2013 16:30	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 18:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1

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

Sample Description: WS-018(4.0-4.5)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036226
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 16:10 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/26/2013 09:15

PO Box 4416

Reported: 04/30/2013 09:43

Houston TX 77210-4416

24182 SDG#: PEG72-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13116807901A	04/26/2013 17:06	Michelle L Lalli	1

Sample Description: WS-TB22-042413 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036227
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

-TB22 SDG#: PEG72-18TB

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-TB22-042413 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036227
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

-TB22 SDG#: PEG72-18TB

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	G131181AA	04/28/2013 15:19	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131181AA	04/28/2013 15:19	Angela D Sneeringer	1

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

Sample Description: FB-04-042413 Grab Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7036228
LLI Group # 1385745
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:00 by JO

ExxonMobil

Submitted: 04/26/2013 09:15

Mobil Pipeline Company

Reported: 04/30/2013 09:43

PO Box 4416

Houston TX 77210-4416

FB04- SDG#: PEG72-19FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	N.D.	0.064	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	N.D.	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	N.D.	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	N.D.	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131186256001	04/28/2013 06:10	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07046	Barium	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
01750	Calcium	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07051	Chromium	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07055	Lead	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07061	Nickel	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07036	Selenium	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07066	Silver	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131161848001	04/27/2013 18:15	John P Hook	1
00259	Mercury	SW-846 7470A	1	131165713001	04/27/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131161848001	04/26/2013 17:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131165713001	04/26/2013 13:50	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/30/13 at 09:43 AM

Group Number: 1385745

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: G131171AA	Sample number(s): 7036210-7036221								
Acetone	N.D.	3.0	5.0	ug/l	102		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	119		61-130		
Benzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	102		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	96		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	104		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	95		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	118		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	101		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	96		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	98		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	88		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	111		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	111		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	124		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	104		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	97		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	90		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	111		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	88		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	87		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	98		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	98		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	93		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	100		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	100		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	93		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	81		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	97		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	100		61-125		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1385745

Reported: 04/30/13 at 09:43 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	111		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	92		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	84		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	102		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	114		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	108		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	97		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	132*		65-131		
Toluene	N.D.	0.1	0.5	ug/l	109		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	94		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	99		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	97		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	92		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	101		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	111		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	96		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	110		80-120		

Batch number: G131181AA

Sample number(s): 7036222-7036227

Acetone	N.D.	3.0	5.0	ug/l	116		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	119		61-130		
Benzene	N.D.	0.1	0.5	ug/l	98		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	101		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	93		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	99		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	92		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	121		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	100		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	93		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	98		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	86		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	123		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	101		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	96		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	90		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	79		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	90		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1385745

Reported: 04/30/13 at 09:43 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	96		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	96		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	92		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	97		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	92		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	86		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	90		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	94		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	105		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	95		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	85		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	101		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Styrene	N.D.	0.1	0.5	ug/l	103		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	104		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	94		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	139*		65-131		
Toluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	93		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	97		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	95		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	100		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	86		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	97		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	90		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	103		80-120		

Batch number: 13116WAE026

Sample number(s): 7036210-7036226

Acenaphthene	N.D.	0.0025	0.013	ug/l	98	100	65-124	2	30
Acenaphthylene	N.D.	0.0025	0.013	ug/l	103	105	72-113	2	30
Anthracene	N.D.	0.0025	0.013	ug/l	101	103	70-117	2	30
Benzo(a)anthracene	N.D.	0.0025	0.013	ug/l	102	101	75-115	2	30
Benzo(a)pyrene	N.D.	0.0025	0.013	ug/l	106	104	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.0025	0.013	ug/l	111	112	74-130	1	30
Benzo(g,h,i)perylene	N.D.	0.0025	0.013	ug/l	101	89	63-121	13	30
Benzo(k)fluoranthene	N.D.	0.0025	0.013	ug/l	106	102	74-118	4	30
Chrysene	N.D.	0.0025	0.013	ug/l	106	104	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.0025	0.013	ug/l	96	75	66-122	24	30
Fluoranthene	N.D.	0.0025	0.013	ug/l	107	109	73-116	2	30
Fluorene	N.D.	0.0025	0.013	ug/l	104	107	74-115	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.0025	0.013	ug/l	102	88	66-122	15	30
1-Methylnaphthalene	N.D.	0.0025	0.013	ug/l	98	100	72-114	2	30
2-Methylnaphthalene	N.D.	0.0025	0.013	ug/l	94	97	74-119	2	30
Naphthalene	N.D.	0.0075	0.013	ug/l	93	95	67-118	1	30
Phenanthrene	N.D.	0.0075	0.013	ug/l	99	102	72-109	3	30
Pyrene	N.D.	0.0025	0.013	ug/l	107	108	71-116	2	30

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1385745

Reported: 04/30/13 at 09:43 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 131161848001	Sample number(s): 7036210-7036226,7036228								
Arsenic	N.D.	0.0068	0.0200	mg/l	105		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	107		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	106		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	105		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	105		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	108		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	104		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	108		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	105		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	105		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	108		90-110		
Batch number: 131165713001	Sample number(s): 7036210-7036226,7036228								
Mercury	N.D.	0.00007	0.00020	mg/l	96		80-120		
		0							
Batch number: 13116807901A	Sample number(s): 7036210-7036226								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	84	91	78-114	7	16

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: G131171AA	Sample number(s): 7036210-7036221 UNSPK: P034033								
Acetone	130	139	57-163	7	30				
Allyl Chloride	126	126	67-139	0	30				
Benzene	102	96	87-126	6	30				
Bromobenzene	102	96	80-123	6	30				
Bromochloromethane	102	102	82-125	0	30				
Bromodichloromethane	94	89	82-133	5	30				
Bromoform	99	95	60-138	4	30				
Bromomethane	103	101	41-145	2	30				
2-Butanone	115	121	63-146	5	30				
n-Butylbenzene	114	107	83-131	6	30				
sec-Butylbenzene	115	107	84-128	7	30				
tert-Butylbenzene	110	105	84-135	5	30				
Carbon Tetrachloride	105	98	81-148	6	30				
Chlorobenzene	108	100	78-133	7	30				
Chloroethane	104	104	70-139	0	30				
Chloroform	99	94	86-136	5	30				
Chloromethane	99	99	55-152	0	30				
2-Chlorotoluene	108	102	81-120	6	30				
4-Chlorotoluene	108	102	82-119	6	30				
1,2-Dibromo-3-chloropropane	118	122	43-143	4	30				
Dibromochloromethane	99	93	79-125	6	30				
1,2-Dibromoethane	96	89	84-127	8	30				
Dibromomethane	89	84	83-126	5	30				
1,2-Dichlorobenzene	104	98	83-117	6	30				
1,3-Dichlorobenzene	107	100	81-118	7	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: 04/30/13 at 09:43 AM

Group Number: 1385745

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	104	98	79-120	6	30				
Dichlorodifluoromethane	100	99	28-136	0	30				
1,1-Dichloroethane	99	96	88-136	4	30				
1,2-Dichloroethane	84	81*	82-135	3	30				
1,1-Dichloroethene	110	103	83-150	7	30				
cis-1,2-Dichloroethene	105	98	82-129	7	30				
trans-1,2-Dichloroethene	106	102	88-127	4	30				
Dichlorofluoromethane	108	107	59-176	1	30				
1,2-Dichloropropane	103	96	91-126	7	30				
1,3-Dichloropropane	97	92	80-127	5	30				
2,2-Dichloropropane	98	91	80-134	7	30				
1,1-Dichloropropene	104	99	86-139	5	30				
cis-1,3-Dichloropropene	97	92	74-132	4	30				
trans-1,3-Dichloropropene	90	85	71-128	6	30				
Ethyl ether	86	86	67-127	0	30				
Ethylbenzene	110	103	80-140	6	30				
Freon 113	103	97	87-158	6	30				
Hexachlorobutadiene	104	97	65-128	7	30				
Isopropylbenzene	111	103	81-133	7	30				
p-Isopropyltoluene	113	106	84-124	6	30				
Methyl Tertiary Butyl Ether	92	86	82-132	6	30				
4-Methyl-2-Pentanone	86	80	69-149	7	30				
Methylene Chloride	102	94	84-122	9	30				
n-Propylbenzene	114	107	79-131	6	30				
Styrene	110	103	63-151	7	30				
1,1,1,2-Tetrachloroethane	104	96	87-126	8	30				
1,1,2,2-Tetrachloroethane	106	98	75-131	8	30				
Tetrachloroethene	101	94	75-129	7	30				
Tetrahydrofuran	122	136	56-154	11	30				
Toluene	111	103	83-127	7	30				
1,2,3-Trichlorobenzene	95	90	73-125	5	30				
1,2,4-Trichlorobenzene	100	94	77-120	6	30				
1,1,1-Trichloroethane	100	94	85-140	6	30				
1,1,2-Trichloroethane	104	97	85-129	7	30				
Trichloroethene	106	99	85-131	7	30				
Trichlorofluoromethane	104	103	67-161	1	30				
1,2,3-Trichloropropane	99	94	76-120	5	30				
1,2,4-Trimethylbenzene	111	104	87-126	7	30				
1,3,5-Trimethylbenzene	113	106	89-129	6	30				
Vinyl Chloride	108	107	65-151	0	30				
Xylene (Total)	111	103	81-137	7	30				

Batch number: G131181AA

Sample number(s): 7036222-7036227 UNSPK: P033310

Acetone	140	145	57-163	3	30
Allyl Chloride	136	135	67-139	1	30
Benzene	119	116	87-126	2	30
Bromobenzene	115	111	80-123	4	30
Bromochloromethane	109	107	82-125	2	30
Bromodichloromethane	107	103	82-133	4	30
Bromoform	104	105	60-138	1	30
Bromomethane	107	109	41-145	2	30
2-Butanone	157*	149*	63-146	6	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: 04/30/13 at 09:43 AM

Group Number: 1385745

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
n-Butylbenzene	126	123	83-131	2	30				
sec-Butylbenzene	129*	126	84-128	2	30				
tert-Butylbenzene	127	133	84-135	4	30				
Carbon Tetrachloride	127	124	81-148	2	30				
Chlorobenzene	121	116	78-133	4	30				
Chloroethane	110	110	70-139	0	30				
Chloroform	114	112	86-136	2	30				
Chloromethane	103	102	55-152	1	30				
2-Chlorotoluene	123*	120	81-120	2	30				
4-Chlorotoluene	125*	120*	82-119	4	30				
1,2-Dibromo-3-chloropropane	159*	154*	43-143	3	30				
Dibromochloromethane	112	109	79-125	3	30				
1,2-Dibromoethane	105	100	84-127	5	30				
Dibromomethane	100	96	83-126	4	30				
1,2-Dichlorobenzene	114	111	83-117	2	30				
1,3-Dichlorobenzene	120*	117	81-118	3	30				
1,4-Dichlorobenzene	116	114	79-120	2	30				
Dichlorodifluoromethane	103	101	28-136	2	30				
1,1-Dichloroethane	106 (2)	121 (2)	88-136	2	30				
1,2-Dichloroethane	99	96	82-135	3	30				
1,1-Dichloroethene	127	129	83-150	2	30				
cis-1,2-Dichloroethene	78 (2)	128 (2)	82-129	3	30				
trans-1,2-Dichloroethene	125	121	88-127	3	30				
Dichlorofluoromethane	114	115	59-176	1	30				
1,2-Dichloropropane	119	115	91-126	3	30				
1,3-Dichloropropane	108	103	80-127	5	30				
2,2-Dichloropropane	114	111	80-134	2	30				
1,1-Dichloropropene	124	120	86-139	3	30				
cis-1,3-Dichloropropene	109	107	74-132	2	30				
trans-1,3-Dichloropropene	99	98	71-128	1	30				
Ethyl ether	91	91	67-127	0	30				
Ethylbenzene	126	121	80-140	4	30				
Freon 113	122	117	87-158	5	30				
Hexachlorobutadiene	104	101	65-128	3	30				
Isopropylbenzene	126	123	81-133	3	30				
p-Isopropyltoluene	126*	123	84-124	3	30				
Methyl Tertiary Butyl Ether	102	99	82-132	2	30				
4-Methyl-2-Pentanone	89	87	69-149	2	30				
Methylene Chloride	118	114	84-122	3	30				
n-Propylbenzene	131	127	79-131	3	30				
Styrene	121	119	63-151	2	30				
1,1,1,2-Tetrachloroethane	118	116	87-126	2	30				
1,1,2,2-Tetrachloroethane	113	110	75-131	3	30				
Tetrachloroethene	117	123	75-129	2	30				
Tetrahydrofuran	173*	172*	56-154	1	30				
Toluene	127	124	83-127	3	30				
1,2,3-Trichlorobenzene	99	98	73-125	1	30				
1,2,4-Trichlorobenzene	106	102	77-120	3	30				
1,1,1-Trichloroethane	112	118	85-140	2	30				
1,1,2-Trichloroethane	111	107	85-129	3	30				
Trichloroethene	32 (2)	173 (2)	85-131	4	30				
Trichlorofluoromethane	109	110	67-161	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: 04/30/13 at 09:43 AM

Group Number: 1385745

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichloropropane	102	103	76-120	1	30				
1,2,4-Trimethylbenzene	126	120	87-126	4	30				
1,3,5-Trimethylbenzene	126	124	89-129	2	30				
Vinyl Chloride	114	114	65-151	0	30				
Xylene (Total)	125	122	81-137	2	30				

Batch number: 131161848001	Sample number(s): 7036210-7036226,7036228 UNSPK: 7036210 BKG: 7036210								
Arsenic	106	105	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	107	106	78-118	1	20	0.0187	0.0185	1 (1)	20
Cadmium	107	107	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	106	106	81-118	0	20	4.08	4.05	1	20
Chromium	106	107	81-120	0	20	N.D.	0.0011 J	200* (1)	20
Lead	109	108	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	105	105	75-125	0	20	1.87	1.87	0	20
Nickel	109	108	86-115	1	20	0.0025 J	0.0023 J	8 (1)	20
Selenium	105	105	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	109	109	90-111	0	20	N.D.	0.0014 J	200* (1)	20
Batch number: 131165713001	Sample number(s): 7036210-7036226,7036228 UNSPK: 7036220 BKG: 7036220								
Mercury	97	92	80-120	5	20	N.D.	N.D.	0 (1)	20
Batch number: 13116807901A	Sample number(s): 7036210-7036226 UNSPK: 7036210								
HEM (oil & grease)	45*		78-114						

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: G131171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7036210	96	94	102	96
7036211	96	93	102	97
7036212	97	94	102	97
7036213	96	97	103	96
7036214	95	93	102	96
7036215	96	93	102	95
7036216	96	92	101	96
7036217	96	94	102	96
7036218	97	94	102	96
7036219	97	96	102	96
7036220	96	93	102	95
7036221	96	95	102	96
Blank	96	92	102	97
LCS	96	95	103	98
MS	96	93	104	99

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1385745

Reported: 04/30/13 at 09:43 AM

Surrogate Quality Control

MSD	95	93	103	97
Limits:	77-114	74-113	77-110	78-110

Analysis Name: NHDES VOCs 25ml purge

Batch number: G131181AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7036222	95	96	102	97
7036223	94	95	102	96
7036224	95	93	102	97
7036225	96	93	103	97
7036226	96	95	101	96
7036227	96	97	101	96
Blank	97	94	101	97
LCS	98	94	102	98
MS	95	95	103	98
MSD	95	89	104	98
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM

Batch number: 13116WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7036210	102	95	87
7036211	97	92	83
7036212	101	97	85
7036213	98	94	82
7036214	108	97	88
7036215	109	94	86
7036216	103	90	86
7036217	108	96	89
7036218	112	101	90
7036219	112	102	90
7036220	106	85	89
7036221	100	69	85
7036222	107	92	87
7036223	107	94	84
7036224	103	88	85
7036225	107	94	87
7036226	106	90	85
Blank	96	98	84
LCS	98	104	87
LCSD	99	100	89
Limits:	64-120	62-141	58-134

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1385745 For Lancaster Laboratories use only Sample # 7036210-28
Instructions on reverse side correspond with circled numbers.

Pg. 1

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks			
Preservation Code				Total # of Containers				Preservation Codes												SCR#:			
Facility #/SID <u>Mayflower Pipeline Incident</u> Site Address <u>Mayflower, AR</u> ExxonMobil PM <u>Scott Bushroe</u> Cost Center/A/E _____ Consultant/Office <u>ARCADIS</u> Consultant PM <u>Steve Barrick</u> Consultant Phone # <u>919-302-6799</u> Sampler <u>Joshua Oliver</u> <u>315-859-5793</u>				☐ Sediment ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Oil				<u>VOCs 8260 B</u> <u>PAH - 8270 SIM</u> <u>PCRA Metals + Ni, V, Mn, Pb</u> <u>HEM (oil & grease)</u>												H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		<u>Data Analysis questions:</u> <u>Lyali Mott</u>	
2 Sample Identification			3																				
Collected			Grab Composite																				
Date	Time		Grab	Composite																			
WS-017 (1.5-2.0) 042413	4/24/13	0920	X																				
WS-017 (4.5-5.0) 042413		0945																					
WS-016 (1.5-2.0) 042413		1000																					
WS-016 (4.5-5.0) 042413		1015																					
WS-015 (1.5-2.0) 042413		1045																					
WS-015 (5.5-6.0) 042413		1055																					
WS-014 (1.5-2.0) 042413		1135																					
WS-014 (4.5-5.0) 042413		1150																					
WS-013 (1.5-2.0) 042413		1220																					
WS-013 (4.0-4.5) 042413		1235																					
WS-011 (1.5-2.0) 042413		1300																					
WS-011 (5.5-6.0) 042413		1315																					
7 Turnaround Time Requested (TAT) (please circle)					Relinquished by <u>Joshua Oliver</u>				Date <u>4/25/13</u>		Time <u>1200</u>		Received by _____				Date _____		Time _____				
Standard 5 day 4 day 72 hour 48 hour <u>24 hour</u>					Relinquished by _____				Date _____		Time _____		Received by _____				Date _____		Time _____				
8 Data Package (circle if required)					Relinquished by Commercial Carrier				Date _____		Time _____		Received by <u>Deborah Resh</u>				Date <u>4/26/13</u>		Time <u>0915</u>				
Type I - Full Type VI (Raw Data) NJ Reduced Other _____					EDD (circle if required) Locus EIM (default) Other _____				UPS _____ <u>FedEx</u> _____ Other _____				Temperature Upon Receipt <u>1.5-4.0</u> °C				Custody Seals Intact? <u>Yes</u> No						

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

Issued by Dept. 40 Management
7053.01

ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 For Lancaster Laboratories use only
Group # 1385745 Sample # 7036210-28
Instructions on reverse side correspond with circled numbers.

B2

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks		
Facility #/SID				Sediment ☐ Ground ☐ Surface ☒				Preservation Code												Preservation Codes		
Site Address				Potable ☐ NPDES ☐ Air ☐				H ☐ N ☐ H ☐												H = HCl T = Thiosulfate		
ExxonMobil PM				Oil ☐				H ☐ N ☐ H ☐												N = HNO ₃ B = NaOH		
Consultant/Office				Total # of Containers				H ☐ N ☐ H ☐												S = H ₂ SO ₄ O = Other		
Consultant PM				Soil ☐ Water ☐				H ☐ N ☐ H ☐														
Sampler				Grab ☐ Composite ☐				H ☐ N ☐ H ☐														
Mayflower Pipeline Incident								VOCs 8260B												Data Analysis questions: Lynbi Mott		
Mayflower, AR								PAH 8270 STM														
Cost Center/AFE								RPA Models + M.V.C. (pH=3)														
Steve Barwick								HEM (oil & grease)														
Consultant Phone #																						
Steve Barwick																						
315-857-5793																						
2 Sample Identification			3 Collected		4 Matrix				5 Analyses Requested												6 Remarks	
Sample	Date	Time	Grab	Composite	Soil	Water	Oil	Total # of Containers	H ☐ N ☐ H ☐													
WS-012 (1.5-2.0) 04/24/13	4/24/13	1345	X			X		8	X	X	X	X										
WS-012 (5.0-5.5) 04/24/13		1355						8	X	X	X	X										
WS-010 (1.5-2.0) 04/24/13		1420						8	X	X	X	X										
WS-018 (1.5-2.0) 04/24/13		1600						8	X	X	X	X										
WS-018 (4.0-4.5) 04/24/13		1610						8	X	X	X	X										
WS-TB22-04/24/13								2	X													
FB-04-04/24/13		1200						1				X										
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by				Date		Time		Received by		Date		Time							
Standard 5 day			Relinquished by				Date		Time		Received by		Date		Time							
72 hour 48 hour			Relinquished by				Date		Time		Received by		Date		Time							
24 hour			Relinquished by Commercial Carrier				Date		Time		Received by		Date		Time							
8 Data Package (circle if required)			UPS				FedEx		Other		Received by		Date		Time							
Type I - Full			Temperature Upon Receipt				1.5-4.0 °C				Custody Seals Intact?		Yes		No							
Type VI (Raw Data)																						
NJ Reduced																						
Other																						

Rachel L. Kreamer A# 14739, Gr# 1385745, LL#s 7036210-28

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Friday, April 26, 2013 9:22 AM
To: Rachel L. Kreamer; SA Env Entry
Cc: Kathy Klinefelter
Subject: FW: 4/25/13 XOM MAYFLOWER
Attachments: 4_25_13_COC.pdf; RE: Mayflower Surface Water Sample TAT

Everyone,

The 72 hr TAT is for business days. Please see the note on attached coc to change TAT to 72 hours.

Lyndi Mott

From: Kathy Klinefelter [mailto:KKlinefelter@lancasterlabs.com]
Sent: Thursday, April 25, 2013 11:41 PM
To: Mott, Lyndi; Barrick, Stephen; Rachel L. Kreamer; SA Env Entry
Subject: FW: 4/25/13 XOM MAYFLOWER

Hello Steve and Lyndi,

The surface water COCs attached are marked for 24 hr TAT. Please clarify TAT per earlier communication today (attached) that all surface waters are now to be entered for 3 business day rush TAT. For samples received on Friday 4/26, 3 business day (72 hr) rush TAT results will be due on Wed afternoon 5/1.

Thanks,
Kathy

From: Mott, Lyndi [mailto:Lyndi.Mott@arcadis-us.com]
Sent: Thursday, April 25, 2013 7:48 PM
To: Rachel L. Kreamer; SA Env Entry
Cc: Kathy Klinefelter
Subject: FW: 4/25/13 XOM MAYFLOWER

Surface waters from 2 days of sampling

From: Oliver, Joshua
Sent: Thursday, April 25, 2013 6:33 PM
To: Kull, Valerie; Brewer, Stacey; Mott, Lyndi
Cc: Dayton, Aaron
Subject: 4/25/13 XOM MAYFLOWER

Ya'll- Please see attached for today's field notes and COC's from the surface water team. We shipped the samples we had from yesterday as well, hence the 2 different COC's. Thank you.

Josh

From: Oliver, Joshua
Sent: Wednesday, April 24, 2013 8:46 PM

4/26/2013

A# 14739, Gr.# 1385745, LL#s 7036210-28

To: Kull, Valerie; Brewer, Stacey; Mott, Lyndi
Cc: Dayton, Aaron
Subject: 4/24/13 XOM MAYFLOWER

Ya'll- Please see attached for today's field notes and COC's from the surface water team. I could not get out the H2O samples we collected on the lake out today because we got back to late with too many samples. I have the samples ready to go for shipment tomorrow evening in coolers on ice with a temporary custody seal on it. I will refresh the ice tomorrow AM & PM; and ship with tomorrows samples. Thank you.

Josh

From: Kull, Valerie
Sent: Wednesday, April 24, 2013 12:01 PM
To: Oliver, Joshua
Subject: RE: daily SW notes

Thank you!

Valerie Kull

From: Oliver, Joshua
Sent: Wednesday, April 24, 2013 1:01 PM
To: Barrick, Stephen
Cc: LeMessurier, Jonathan; Mott, Lyndi; Kull, Valerie; Brewer, Stacey
Subject: Re: daily SW notes

I sent out field notes to Stacey last night. I will continue to do that, and include Valerie and Lyndi.

Joshua Oliver
Geologist II
Arcadis US Inc

On Apr 24, 2013, at 11:41 AM, "Barrick, Stephen" <Stephen.Barrick@arcadis-us.com> wrote:

Josh,

Scratch that.....send PDFs to Stacey Brewer. Thanks

Jon,

Make sure that Stacey has all of your field notes too.

STeve

From: Barrick, Stephen
Sent: Wednesday, April 24, 2013 12:19 PM
To: Oliver, Joshua
Cc: LeMessurier, Jonathan; Mott, Lyndi; Kull, Valerie
Subject: daily SW notes

Josh,

4/26/2013

A# 14739, Gr# 1385745, LL#s 7036210-28

It's imperative that we receive your team's field notes on a daily basis. Please make sure everything is provided by PDF to Lyndi and Valerie. They will post to our team's share point site.

Thanks man!

Steve

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4/26/2013

Environmental Sample Administration
Receipt Documentation Log

1385745

Client/Project: XOM MayflowerShipping Container Sealed: YES NODate of Receipt: 4/26/13Custody Seal Present * : YES NOTime of Receipt: 0915* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: SO-1Package: 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	5737	2.5	TB	WI	Y	B	
2	↓	1.6	↓	↓	↓	↓	
3	↓	4.0	↓	↓	↓	↓	
4	↓	2.2	↓	↓	↓	↓	
5	↓	1.5	↓	↓	↓	↓	
6	↓	2.5	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Daniel / 208

Date/Time:

4/26/13 / 1000

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

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

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

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

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

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