

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 18, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/13/2013

Group Number: 1382701

SDG: PEG25

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LLI) #

WS-003(SURFACE)041213 Grab Surface Water	7021447
WS-002(SURFACE)041213 Grab Surface Water	7021448
WS-BKG-001(SURFACE)041213 Grab Surface Water	7021449
WS-BKG-001(SURFACE)MS041213 Grab Surface Water	7021450
WS-BKG-001(SURFACE)MSD041213 Grab Surface Water	7021451
WS-BKG-001(SURFACE)DUP041213 Grab Surface Water	7021452
WS-005(SURFACE)041213 Grab Surface Water	7021453
WS-001(SURFACE)041213 Grab Surface Water	7021454
WS-001(0.5-1.0)041213 Grab Surface Water	7021455
WS-004(SURFACE)041213 Grab Surface Water	7021456
WS-004(0.5-1.0)041213 Grab Surface Water	7021457
WS-007(SURFACE)041213 Grab Surface Water	7021458
WS-007(0.5-1.0)041213 Grab Surface Water	7021459
WS-009(SURFACE)041213 Grab Surface Water	7021460
WS-006(SURFACE)041213 Grab Surface Water	7021461
WS-006(0.5-1.0)041213 Grab Surface Water	7021462
WS-008(SURFACE)041213 Grab Surface Water	7021463
WS-TB-08-041213 Water	7021464

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

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Attn: Stephen Barrick

Attn: Lyndi Mott

Attn: Scott Bushroe

COPY TO

ELECTRONIC

ExxonMobil Pipeline Company

Attn: Timothy S. Martin

COPY TO

ELECTRONIC

ExxonMobil

Attn: Michael J. Firth

COPY TO

Respectfully Submitted,

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1382701

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8260B 25mL purge, GC/MS Volatiles

Batch #: C131041AA (Sample number(s): 7021447-7021451, 7021453-7021464 UNSPK: 7021449)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Methyl Tertiary Butyl Ether, Hexachlorobutadiene

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13103WAE026 (Sample number(s): 7021447-7021451, 7021453 UNSPK: 7021449)

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

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

Batch #: 13103WAZ026 (Sample number(s): 7021455, 7021460-7021463 UNSPK: 03WZUS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

Batch #: 13104WAA026 (Sample number(s): 7021454, 7021456-7021459)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD exceeded the acceptance window indicating a positive bias: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

Sample #s: 7021454, 7021456, 7021457, 7021458, 7021459

The percent recoveries for several compounds in the LCS/LCSD associated with this sample were outside QC specification high. Any detected compounds would be biased slightly high. The client was contacted and the data was reported

SW-846 6010B, Metals

Batch #: 131031848001 (Sample number(s): 7021447-7021463 UNSPK: 7021449 BKG: 7021449)

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

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Sample Description: WS-003 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021447
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 08:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1203 SDG#: PEG25-01

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

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

Sample Description: WS-003 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021447
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 08:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1203 SDG#: PEG25-01

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.	0.011	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	13.7	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	0.0196	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00043 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.05	0.0640	0.200	1

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

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Sample Description: WS-003 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021447
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 08:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1203 SDG#: PEG25-01

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	1.47	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	0.0013 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 10:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 10:24	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAE026	04/14/2013 00:34	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAE026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 20:44	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-002 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021448
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 08:45 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M1202 SDG#: PEG25-02

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

REVISED

Sample Description: WS-002 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021448
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 08:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1202 SDG#: PEG25-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	12.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0199	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00050 J	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

REVISED

Sample Description: WS-002 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021448
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 08:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1202 SDG#: PEG25-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0016 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.37	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 08:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 08:12	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAE026	04/14/2013 01:02	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAE026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 20:48	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021449
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:40 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M12BK SDG#: PEG25-03BKG

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

REVISED

Sample Description: WS-BKG-001(SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021449
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12BK SDG#: PEG25-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.8	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	0.0294	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00048 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.97	0.0640	0.200	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021449
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12BK SDG#: PEG25-03BKG

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	1.91	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 06:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 06:45	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAE026	04/13/2013 20:54	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAE026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 20:17	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE)MS041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021450
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:45 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M12BK SDG#: PEG25-03MS

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	39	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.7	0.1	0.5	1
02898	Benzene	71-43-2	5.4	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.0	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.7	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.7	0.1	0.5	1
02898	Bromoform	75-25-2	4.2	0.1	0.5	1
02898	Bromomethane	74-83-9	5.7	0.1	0.5	1
02898	2-Butanone	78-93-3	37	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	6.2	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	6.1	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.9	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.4	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.6	0.1	0.5	1
02898	Chloroethane	75-00-3	5.7	0.1	0.5	1
02898	Chloroform	67-66-3	5.5	0.1	0.5	1
02898	Chloromethane	74-87-3	5.3	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.6	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.6	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.5	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.2	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.3	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.6	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.4	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	6.2	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.7	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.0	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	7.0	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.0	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.3	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.5	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.8	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.6	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.2	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.9	0.1	0.5	1
02898	Freon 113	76-13-1	6.3	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	7.1	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	6.1	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	6.1	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	3.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	18	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.1	0.2	0.5	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE)MS041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021450
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12BK SDG#: PEG25-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.9	0.1	0.5	1
02898	Styrene	100-42-5	5.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.4	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.4	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	2.0	5.0	1
02898	Toluene	108-88-3	5.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.4	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.5	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.3	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.5	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.8	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.011	0.054	1
08357	Acenaphthylene	208-96-8	1.1	0.011	0.054	1
08357	Anthracene	120-12-7	1.1	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	0.91	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	0.99	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	0.92	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	0.98	0.011	0.054	1
08357	Chrysene	218-01-9	0.99	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	0.87	0.011	0.054	1
08357	Fluoranthene	206-44-0	1.1	0.011	0.054	1
08357	Fluorene	86-73-7	1.1	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.011	0.054	1
08357	Naphthalene	91-20-3	1.1	0.032	0.054	1
08357	Phenanthrene	85-01-8	1.1	0.032	0.054	1
08357	Pyrene	129-00-0	1.2	0.011	0.054	1
Metals	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.151	0.0068	0.0200	1
07046	Barium	7440-39-3	2.07	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0520	0.00036	0.0050	1
01750	Calcium	7440-70-2	10.1	0.0640	0.200	1
07051	Chromium	7440-47-3	0.207	0.0011	0.0150	1
07055	Lead	7439-92-1	0.162	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.92	0.0606	0.100	1
07061	Nickel	7440-02-0	0.534	0.0011	0.0100	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE)MS041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021450
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12BK SDG#: PEG25-03MS

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	
07036	Selenium	7782-49-2	0.148	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0475	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.515	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 07:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 07:06	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAE026	04/13/2013 21:22	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13103WAE026	04/13/2013 13:45	Elizabeth A Sholder	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 20:30	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE)MSD041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021451
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:50 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M12BK SDG#: PEG25-03MSD

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	38	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.8	0.1	0.5	1
02898	Benzene	71-43-2	5.4	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.0	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.7	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.7	0.1	0.5	1
02898	Bromoform	75-25-2	4.3	0.1	0.5	1
02898	Bromomethane	74-83-9	5.6	0.1	0.5	1
02898	2-Butanone	78-93-3	38	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	6.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	6.1	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	6.0	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.3	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.6	0.1	0.5	1
02898	Chloroethane	75-00-3	5.8	0.1	0.5	1
02898	Chloroform	67-66-3	5.4	0.1	0.5	1
02898	Chloromethane	74-87-3	5.3	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.5	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.4	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.5	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.3	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.3	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.2	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.6	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.4	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	6.0	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.7	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.9	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	7.0	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.0	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.3	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.5	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.8	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.7	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.2	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.4	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.9	0.1	0.5	1
02898	Freon 113	76-13-1	6.1	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	6.9	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	6.1	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	6.1	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	3.9	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	18	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.1	0.2	0.5	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE)MSD041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021451
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12BK SDG#: PEG25-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.9	0.1	0.5	1
02898	Styrene	100-42-5	5.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.3	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.4	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	2.0	5.0	1
02898	Toluene	108-88-3	5.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.4	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.5	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.2	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.4	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.8	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.97	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.052	1
08357	Anthracene	120-12-7	0.93	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.84	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.63	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.73	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.58	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.64	0.010	0.052	1
08357	Chrysene	218-01-9	0.74	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.55	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.052	1
08357	Fluorene	86-73-7	0.97	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.58	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.0	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.052	1
08357	Naphthalene	91-20-3	0.99	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.98	0.031	0.052	1
08357	Pyrene	129-00-0	1.0	0.010	0.052	1
Metals	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.153	0.0068	0.0200	1
07046	Barium	7440-39-3	2.11	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0516	0.00036	0.0050	1
01750	Calcium	7440-70-2	10.1	0.0640	0.200	1
07051	Chromium	7440-47-3	0.207	0.0011	0.0150	1
07055	Lead	7439-92-1	0.160	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.88	0.0606	0.100	1
07061	Nickel	7440-02-0	0.531	0.0011	0.0100	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE)MSD041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021451
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12BK SDG#: PEG25-03MSD

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	
07036	Selenium	7782-49-2	0.147	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0484	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.515	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 07:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 07:29	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAE026	04/13/2013 21:49	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13103WAE026	04/13/2013 13:45	Elizabeth A Sholder	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 20:35	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE)DUP041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021452
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 09:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12BK SDG#: PEG25-03DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0289	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00041 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.86	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.85	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

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
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 20:26	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-005(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021453
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 10:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1205 SDG#: PEG25-04

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

REVISED

Sample Description: WS-005(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021453
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 10:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1205 SDG#: PEG25-04

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	0.052	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	14.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0174	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00053 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.34	0.0640	0.200	1

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

REVISED

Sample Description: WS-005 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021453
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 10:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1205 SDG#: PEG25-04

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	1.54	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

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	C131041AA	04/14/2013 08:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 08:34	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAE026	04/14/2013 01:29	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAE026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:01	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-001(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021454
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:00 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1201 SDG#: PEG25-05

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

REVISED

Sample Description: WS-001(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021454
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:00 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1201 SDG#: PEG25-05

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	0.067	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.016 J	0.010	0.052	1
The percent recoveries for several compounds in the LCS/LCSD associated with this sample were outside QC specification high. Any detected compounds would be biased slightly high. The client was contacted and the data was reported						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0605	0.00033	0.0050	1

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

Sample Description: WS-001(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021454
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:00 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1201 SDG#: PEG25-05

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	
07049	Cadmium	7440-43-9	0.00072 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.49	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0065 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.93	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0041 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0061	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 08:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 08:56	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13104WAA026	04/15/2013 04:12	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13104WAA026	04/14/2013 17:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 22:57	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-001(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021455
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:05 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M1210 SDG#: PEG25-06

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

REVISED

Sample Description: WS-001(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021455
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:05 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M1210 SDG#: PEG25-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	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	0.036 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.4	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	0.0543	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00055 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.51	0.0640	0.200	1

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

REVISED

Sample Description: WS-001(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021455
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:05 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1210 SDG#: PEG25-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0052 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.86	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0039 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0086	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 09:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 09:18	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAZ026	04/13/2013 21:26	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAZ026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:10	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-004(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021456
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1204 SDG#: PEG25-07

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

REVISED

Sample Description: WS-004(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021456
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1204 SDG#: PEG25-07

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	0.3 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.011 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.019 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.015 J	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	0.017 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.043 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.017 J	0.010	0.051	1
The percent recoveries for several compounds in the LCS/LCSD associated with this sample were outside QC specification high. Any detected compounds would be biased slightly high. The client was contacted and the data was reported						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	20.3	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	0.106	0.00033	0.0050	1

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

REVISED

Sample Description: WS-004 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021456
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1204 SDG#: PEG25-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.00094 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.14	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0105 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0114 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.42	0.0606	0.100	1
07061	Nickel	7440-02-0	0.010 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	0.0173	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 09:40	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 09:40	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13104WAA026	04/15/2013 04:40	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13104WAA026	04/14/2013 17:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:15	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-004(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021457
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12-4 SDG#: PEG25-08

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

REVISED

Sample Description: WS-004(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021457
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12-4 SDG#: PEG25-08

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	0.1 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.4 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.013 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.048 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.015 J	0.010	0.051	1
The percent recoveries for several compounds in the LCS/LCSD associated with this sample were outside QC specification high. Any detected compounds would be biased slightly high. The client was contacted and the data was reported						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.8	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	0.117	0.00033	0.0050	1

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

REVISED

Sample Description: WS-004(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021457
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M12-4 SDG#: PEG25-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.0011 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.45	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0112 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0144 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.59	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0104	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	0.0187	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 10:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 10:02	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13104WAA026	04/15/2013 05:07	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13104WAA026	04/14/2013 17:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:19	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-007 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021458
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:15 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M1207 SDG#: PEG25-09

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

REVISED

Sample Description: WS-007 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021458
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1207 SDG#: PEG25-09

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	0.1 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.017 J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.036 J	0.011	0.053	1
08357	Anthracene	120-12-7	0.13	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.29	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.085	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.43	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.081	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.16	0.011	0.053	1
08357	Chrysene	218-01-9	0.77	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.019 J	0.011	0.053	1
08357	Fluoranthene	206-44-0	3.0	0.011	0.053	1
08357	Fluorene	86-73-7	0.027 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.11	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.034 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.64	0.032	0.053	1
08357	Pyrene	129-00-0	2.0	0.011	0.053	1
The percent recoveries for several compounds in the LCS/LCSD associated with this sample were outside QC specification high. Any detected compounds would be biased slightly high. The client was contacted and the data was reported						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	19.9	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	0.0989	0.00033	0.0050	1

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

REVISED

Sample Description: WS-007 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021458
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1207 SDG#: PEG25-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.00091 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.05	0.0640	0.200	1
07051	Chromium	7440-47-3	0.010 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0121 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.38	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0102	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	0.0165	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000085 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 10:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 10:45	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13104WAA026	04/15/2013 05:34	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13104WAA026	04/14/2013 17:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:23	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-007(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021459
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1270 SDG#: PEG25-10

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

REVISED

Sample Description: WS-007(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021459
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1270 SDG#: PEG25-10

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	0.2 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.017 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.040 J	0.010	0.051	1
08357	Anthracene	120-12-7	0.15	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.22	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.070	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.42	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.075	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.13	0.010	0.051	1
08357	Chrysene	218-01-9	0.61	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.017 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	2.5	0.010	0.051	1
08357	Fluorene	86-73-7	0.031 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.099	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.043 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.71	0.030	0.051	1
08357	Pyrene	129-00-0	1.7	0.010	0.051	1
The percent recoveries for several compounds in the LCS/LCSD associated with this sample were outside QC specification high. Any detected compounds would be biased slightly high. The client was contacted and the data was reported						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	20.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0976	0.00033	0.0050	1

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

REVISED

Sample Description: WS-007(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021459
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1270 SDG#: PEG25-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.00077 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.11	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0100 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0112 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.39	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0093 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0161	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 11:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 11:07	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13104WAA026	04/15/2013 06:01	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13104WAA026	04/14/2013 17:00	David V Hershey Jr	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:28	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-009(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021460
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:55 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M1209 SDG#: PEG25-11

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

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

REVISED

Sample Description: WS-009(SURFACE)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021460
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:55 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M1209 SDG#: PEG25-11

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	0.1 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.022 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.015 J	0.010	0.051	1
08357	Anthracene	120-12-7	0.040 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.047 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.020 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.10	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.036 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.075	0.010	0.051	1
08357	Chrysene	218-01-9	0.12	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.029 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.11	0.010	0.051	1
08357	Fluorene	86-73-7	0.028 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.026 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.023 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.036 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.11	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.050 J	0.030	0.051	1
08357	Pyrene	129-00-0	0.18	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	36.6	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	0.230	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0014 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.06	0.0640	0.200	1

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

REVISED

Sample Description: WS-009 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021460
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 13:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1209 SDG#: PEG25-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0127 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0206	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.40	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0168	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0015 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0207	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00017 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs 8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 11:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 11:29	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAZ026	04/13/2013 23:41	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAZ026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:32	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-006 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021461
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1206 SDG#: PEG25-12

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

REVISED

Sample Description: WS-006 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021461
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1206 SDG#: PEG25-12

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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	0.067	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	17.2	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	0.0377	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00064 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.84	0.0640	0.200	1

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

REVISED

Sample Description: WS-006 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021461
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1206 SDG#: PEG25-12

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	0.0029 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.85	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0030 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0050	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00011 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 11:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 11:51	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAZ026	04/14/2013 00:09	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAZ026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:37	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-006(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021462
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1260 SDG#: PEG25-13

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

REVISED

Sample Description: WS-006(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021462
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1260 SDG#: PEG25-13

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	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.053	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.6	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	0.0405	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00053 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.98	0.0640	0.200	1

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

REVISED

Sample Description: WS-006(0.5-1.0)041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021462
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 14:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1260 SDG#: PEG25-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0028 J	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	0.0031 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0049 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000083 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 12:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 12:13	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAZ026	04/14/2013 00:36	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAZ026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 21:41	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-008 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021463
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 15:30 by JL

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M1208 SDG#: PEG25-14

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	4.3 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	2.4	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	0.2 J	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	0.8	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.6	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	0.1 J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	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

REVISED

Sample Description: WS-008 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021463
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 15:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1208 SDG#: PEG25-14

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	0.1 J	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	4.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	5.0	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.018 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	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	0.065	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	0.29	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.30	0.010	0.051	1
08357	Naphthalene	91-20-3	0.18	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.088	0.030	0.051	1
08357	Pyrene	129-00-0	0.016 J	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.9	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	0.0395	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.25	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) 041213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021463
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013 15:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/13/2013 09:30

PO Box 4416

Reported: 04/18/2013 12:58

Houston TX 77210-4416

M1208 SDG#: PEG25-14

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	0.0042 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.14	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0043 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0048 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000082 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs 8260	SW-846 8260B 25mL purge	1	C131041AA	04/14/2013 12:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 12:36	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13103WAZ026	04/14/2013 01:03	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13103WAZ026	04/13/2013 13:45	Elizabeth A Sholder	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131046256001	04/14/2013 06:45	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131031848001	04/13/2013 23:00	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131031848001	04/13/2013 21:53	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131031848001	04/13/2013 23:00	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131031848001	04/13/2013 21:53	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131031848001	04/13/2013 21:53	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131031848001	04/13/2013 23:00	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131031848001	04/13/2013 21:53	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131031848001	04/13/2013 23:00	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131031848001	04/13/2013 23:00	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131031848001	04/13/2013 21:53	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131031848001	04/13/2013 23:00	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131035713001	04/14/2013 07:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131031848001	04/13/2013 16:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131035713001	04/13/2013 11:25	Damary Valentin	1

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

REVISED

Sample Description: WS-TB-08-041213 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021464
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M12TB SDG#: PEG25-15TB*

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

REVISED

Sample Description: WS-TB-08-041213 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7021464
LLI Group # 1382701
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/12/2013

ExxonMobil

Submitted: 04/13/2013 09:30

Mobil Pipeline Company

Reported: 04/18/2013 12:58

PO Box 4416

Houston TX 77210-4416

M12TB SDG#: PEG25-15TB*

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	C131041AA	04/14/2013 06:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131041AA	04/14/2013 06:23	Jason M Long	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/18/13 at 12:58 PM

Group Number: 1382701

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: C131041AA	Sample number(s): 7021447-7021451, 7021453-7021464								
Acetone	N.D.	3.0	5.0	ug/l	92		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	106		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	96		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	94		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	90		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	107		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	100		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	109		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	114		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	106		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	98		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	112		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	94		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	88		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	91		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	111		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	95		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	130		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	99		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	91		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	118		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	104		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	87		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	84		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	109		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	123		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: 1382701

Reported: 04/18/13 at 12:58 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	111		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	81		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	78		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	108		80-120		
Styrene	N.D.	0.1	0.5	ug/l	106		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	85		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	118		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	98		65-131		
Toluene	N.D.	0.1	0.5	ug/l	107		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	108		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	108		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	113		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	93		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	115		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	85		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	104		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	109		80-120		

Batch number: 13103WAE026

Sample number(s): 7021447-7021451,7021453

Acenaphthene	N.D.	0.010	0.050	ug/l	99		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	101		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	102		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	99		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	100		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	94		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	105		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	99		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	86		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	105		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	98		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	94		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	101		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	100		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	98		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	106		71-116		

Batch number: 13103WAZ026

Sample number(s): 7021455,7021460-7021463

Acenaphthene	N.D.	0.010	0.050	ug/l	97		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	103		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	100		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	101		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	102		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	102		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	99		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	106		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	100		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	92		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	103		73-116		

*- 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: 1382701

Reported: 04/18/13 at 12:58 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	N.D.	0.010	0.050	ug/l	99		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	95		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	100		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	100		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	103		71-116		

Batch number: 13104WAA026	Sample number(s): 7021454,7021456-7021459								
Acenaphthene	N.D.	0.010	0.050	ug/l	113	115	65-124	2	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	120*	122*	72-113	2	30
Anthracene	N.D.	0.010	0.050	ug/l	117	120*	70-117	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	121*	122*	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	121*	125*	72-120	3	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	129	131*	74-130	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	107	107	63-121	0	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	123*	125*	74-118	1	30
Chrysene	N.D.	0.010	0.050	ug/l	119*	121*	75-112	1	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	112	112	66-122	0	30
Fluoranthene	N.D.	0.010	0.050	ug/l	122*	125*	73-116	3	30
Fluorene	N.D.	0.010	0.050	ug/l	115	117*	74-115	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	111	111	66-122	0	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	120*	120*	72-114	0	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	123*	123*	74-119	0	30
Naphthalene	N.D.	0.030	0.050	ug/l	117	117	67-118	0	30
Phenanthrene	N.D.	0.030	0.050	ug/l	117*	119*	72-109	2	30
Pyrene	N.D.	0.010	0.050	ug/l	119*	121*	71-116	2	30

Batch number: 131031848001	Sample number(s): 7021447-7021463								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	0.00050 J	0.00036	0.0050	mg/l	104		90-112		
Calcium	0.0904 J	0.0640	0.200	mg/l	104		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	106		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	101		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	100		80-120		
Silver	0.0013 J	0.0012	0.0050	mg/l	98		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	102		90-110		

Batch number: 131035713001	Sample number(s): 7021447-7021463								
Mercury	N.D.	0.00007	0.00020	mg/l	99		80-120		
		0							

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131041AA	Sample number(s): 7021447-7021451,7021453-7021464 UNSPK: 7021449								

*- 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: 04/18/13 at 12:58 PM

Group Number: 1382701

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Acetone	103	100	57-163	3	30				
Allyl Chloride	114	115	67-139	1	30				
Benzene	108	108	87-126	0	30				
Bromobenzene	101	99	80-123	1	30				
Bromochloromethane	93	94	82-125	1	30				
Bromodichloromethane	93	94	82-133	1	30				
Bromoform	85	85	60-138	0	30				
Bromomethane	114	113	41-145	1	30				
2-Butanone	100	100	63-146	1	30				
n-Butylbenzene	123	123	83-131	1	30				
sec-Butylbenzene	122	122	84-128	0	30				
tert-Butylbenzene	119	120	84-135	1	30				
Carbon Tetrachloride	128	127	81-148	1	30				
Chlorobenzene	112	111	78-133	0	30				
Chloroethane	114	115	70-139	1	30				
Chloroform	111	109	86-136	2	30				
Chloromethane	106	106	55-152	1	30				
2-Chlorotoluene	112	114	81-120	1	30				
4-Chlorotoluene	111	111	82-119	0	30				
1,2-Dibromo-3-chloropropane	111	108	43-143	3	30				
Dibromochloromethane	90	90	79-125	0	30				
1,2-Dibromoethane	85	87	84-127	2	30				
Dibromomethane	86	86	83-126	0	30				
1,2-Dichlorobenzene	105	104	83-117	1	30				
1,3-Dichlorobenzene	112	113	81-118	1	30				
1,4-Dichlorobenzene	109	108	79-120	1	30				
Dichlorodifluoromethane	124	121	28-136	3	30				
1,1-Dichloroethane	114	114	88-136	0	30				
1,2-Dichloroethane	90	91	82-135	1	30				
1,1-Dichloroethene	120	119	83-150	1	30				
cis-1,2-Dichloroethene	107	106	82-129	0	30				
trans-1,2-Dichloroethene	117	116	88-127	1	30				
Dichlorofluoromethane	141	140	59-176	1	30				
1,2-Dichloropropane	100	99	91-126	1	30				
1,3-Dichloropropane	87	87	80-127	0	30				
2,2-Dichloropropane	130	130	80-134	0	30				
1,1-Dichloropropene	116	115	86-139	0	30				
cis-1,3-Dichloropropene	92	93	74-132	2	30				
trans-1,3-Dichloropropene	83	85	71-128	2	30				
Ethyl ether	86	87	67-127	1	30				
Ethylbenzene	118	118	80-140	0	30				
Freon 113	125	122	87-158	2	30				
Hexachlorobutadiene	142*	138*	65-128	3	30				
Isopropylbenzene	121	121	81-133	0	30				
p-Isopropyltoluene	123	123	84-124	0	30				
Methyl Tertiary Butyl Ether	77*	77*	82-132	1	30				
4-Methyl-2-Pentanone	70	72	69-149	2	30				
Methylene Chloride	101	101	84-122	0	30				
n-Propylbenzene	118	118	79-131	0	30				
Styrene	110	110	63-151	0	30				
1,1,1,2-Tetrachloroethane	107	106	87-126	1	30				
1,1,2,2-Tetrachloroethane	83	82	75-131	2	30				

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/18/13 at 12:58 PM

Group Number: 1382701

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
Tetrachloroethene	128	128	75-129	0	30				
Tetrahydrofuran	97	96	56-154	1	30				
Toluene	115	115	83-127	0	30				
1,2,3-Trichlorobenzene	107	107	73-125	0	30				
1,2,4-Trichlorobenzene	109	109	77-120	0	30				
1,1,1-Trichloroethane	125	124	85-140	1	30				
1,1,2-Trichloroethane	88	89	85-129	1	30				
Trichloroethene	114	115	85-131	1	30				
Trichlorofluoromethane	129	128	67-161	1	30				
1,2,3-Trichloropropane	81	81	76-120	1	30				
1,2,4-Trimethylbenzene	115	115	87-126	0	30				
1,3,5-Trimethylbenzene	117	117	89-129	0	30				
Vinyl Chloride	117	115	65-151	1	30				
Xylene (Total)	117	117	81-137	0	30				

Batch number: 13103WAE026 Sample number(s): 7021447-7021451,7021453 UNSPK: 7021449

Acenaphthene	100	94	59-127	10	30
Acenaphthylene	102	97	33-146	9	30
Anthracene	99	90	69-119	13	30
Benzo(a)anthracene	105	81	67-124	29	30
Benzo(a)pyrene	85	61*	64-123	36*	30
Benzo(b)fluoranthene	92	70	61-133	31*	30
Benzo(g,h,i)perylene	85	56	36-138	45*	30
Benzo(k)fluoranthene	91	62	59-128	42*	30
Chrysene	92	72	62-118	29	30
Dibenz(a,h)anthracene	81	53	32-141	46*	30
Fluoranthene	106	96	65-123	13	30
Fluorene	99	94	69-124	9	30
Indeno(1,2,3-cd)pyrene	85	56	29-143	44*	30
1-Methylnaphthalene	103	97	67-117	10	30
2-Methylnaphthalene	109	101	71-126	11	30
Naphthalene	103	96	58-131	11	30
Phenanthrene	99	95	67-117	9	30
Pyrene	116	99	59-125	20	30

Batch number: 13103WAZ026 Sample number(s): 7021455,7021460-7021463 UNSPK: P03WZUS

Acenaphthene	97	91	59-127	10	30
Acenaphthylene	104	98	33-146	9	30
Anthracene	96	89	69-119	11	30
Benzo(a)anthracene	98	83	67-124	21	30
Benzo(a)pyrene	90	65	64-123	35*	30
Benzo(b)fluoranthene	97	71	61-133	35*	30
Benzo(g,h,i)perylene	85	56	36-138	45*	30
Benzo(k)fluoranthene	92	65	59-128	37*	30
Chrysene	94	78	62-118	21	30
Dibenz(a,h)anthracene	82	54	32-141	45*	30
Fluoranthene	104	95	65-123	12	30
Fluorene	101	94	69-124	11	30
Indeno(1,2,3-cd)pyrene	84	55	29-143	46*	30
1-Methylnaphthalene	104	98	67-117	9	30
2-Methylnaphthalene	106	101	71-126	9	30
Naphthalene	102	97	58-131	9	30

*- Outside of specification

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 04/18/13 at 12:58 PM

Group Number: 1382701

Sample Matrix Quality ControlUnspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Phenanthrene	101	96	67-117	9	30			
Pyrene	102	95	59-125	11	30			
Batch number: 131031848001 Sample number(s): 7021447-7021463 UNSPK: 7021449 BKG: 7021449								
Arsenic	101	102	81-123	1	20	N.D.	N.D.	0 (1) 20
Barium	102	104	78-118	2	20	0.0294	0.0289	2 20
Cadmium	103	102	83-116	1	20	0.00048 J	0.00041 J	16 (1) 20
Calcium	103	103	81-118	0	20	5.97	5.86	2 20
Chromium	103	103	81-120	0	20	N.D.	N.D.	0 (1) 20
Lead	108	107	75-125	1	20	N.D.	N.D.	0 (1) 20
Magnesium	100	98	75-125	1	20	1.91	1.85	3 20
Nickel	106	106	86-115	1	20	0.0021 J	0.0017 J	23* (1) 20
Selenium	99	98	75-125	1	20	N.D.	N.D.	0 (1) 20
Silver	95	97	75-125	2	20	N.D.	N.D.	0 (1) 20
Vanadium	103	103	90-111	0	20	N.D.	0.0014 J	200* (1) 20
Batch number: 131035713001 Sample number(s): 7021447-7021463 UNSPK: 7021449 BKG: 7021449								
Mercury	104	101	80-120	3	20	N.D.	N.D.	0 (1) 20

Surrogate Quality ControlSurrogate 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: C131041AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7021447	96	84	103	94
7021448	95	86	102	98
7021449	94	84	103	94
7021450	94	83	105	97
7021451	94	84	105	96
7021453	96	87	103	94
7021454	95	86	103	95
7021455	97	86	103	95
7021456	96	86	103	95
7021457	96	86	102	96
7021458	95	85	102	95
7021459	96	86	102	95
7021460	96	86	102	95
7021461	95	85	103	94
7021462	96	86	103	95
7021463	94	85	103	96
7021464	95	87	103	95
Blank	96	86	103	95
LCS	96	88	104	98
MS	94	83	105	97
MSD	94	84	105	96

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/18/13 at 12:58 PM

Group Number: 1382701

Surrogate Quality Control

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

Batch number: 13103WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7021447	94	86	83
7021448	93	88	86
7021449	89	75	83
7021450	98	92	92
7021451	89	64	86
7021453	93	90	85
Blank	99	100	89
LCS	98	101	91
MS	98	92	92
MSD	89	64	86

Limits:	64-120	62-141	58-134
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Analysis Name: PAHs in waters by SIM

Batch number: 13103WAZ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7021455	84	71	81
7021460	81	92	85
7021461	82	70	80
7021462	89	78	81
7021463	87	81	80
Blank	96	101	89
LCS	97	103	93
MS	96	91	93
MSD	88	63	88

Limits:	64-120	62-141	58-134
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Analysis Name: PAHs in waters by SIM

Batch number: 13104WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7021454	112	108	108
7021456	99	79	100
7021457	88	62	95
7021458	91	75	94
7021459	101	86	103
Blank	114	124	107
LCS	115	127	110
LCSD	117	128	110

Limits:	64-120	62-141	58-134
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*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/18/13 at 12:58 PM

Group Number: 1382701

*- 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.

Acct. # 14739

For Lancaster Laboratories use only.
Group # 1382701 Sample # 7021447-64
Instructions on reverse side correspond with circled numbers.

Instructions on reverse side correspond with circled number

1 Client Information										4 Matrix		5 Analyses Requested										SCR#:			
Facility #/SID MAYFLOWER PIPELINE INCIDENT										☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air		Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other			
Site Address MAYFLOWER, AR																									
ExxonMobil PM SCOTT BUSHROE										Cost Center/AFE												6 Remarks DATA ANALYSIS QUESTIONS: LYNDI MOTT - ARCADIS			
Consultant/Office ARCADIS																									
Consultant PM STEVE BARRICK										Consultant Phone # 919-302-6799															
Sampler JON LEMESSURIER 315 558 1904										3 Composite															
2 Sample Identification										Collected		Grab		Soil		Water		Oil		Total # of Containers					
										Date		Time													
MS-003 (SURFACE) 041213										4/12/13		0815		X						6		X		X	
MS-002 (SURFACE) 041213												0845		X						6		X		X	
MS-BKG-001 (SURFACE) 041213												0940		X						6		X		X	
MS-BKG-001 (SURFACE) MSD 041213												0945		X						6		X		X	
MS-BKG-001 (SURFACE) MSD 041213												0950		X						6		X		X	
MS-005 (SURFACE) 041213												1045		X						6		X		X	
MS-001 (SURFACE) 041213												1300		X						6		X		X	
MS-001 (0.5-1.0) 041213												1305		X						6		X		X	
MS-004 (SURFACE) 041213												1340		X						6		X		X	
MS-004 (0.5-1.0) 041213												1345		X						6		X		X	
MS-007 (SURFACE) 041213												1415		X						6		X		X	
MS-007 (0.5-1.0) 041213												1420		X						6		X		X	
7 Turnaround Time Requested (TAT) (please circle)										Relinquished by		Date		Time		Received by		Date		Time		9			
Standard 5 day 4 day										[Signature]		4/12/13		1700		[Signature]									
72 hour 48 hour 24 hour										Relinquished by		Date		Time		Received by		Date		Time					
										Relinquished by		Date		Time		Received by		Date		Time					
8 Data Package (circle if required)										Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time					
Type I - Full										UPS		FedEx		X		Other		[Signature]		4.13.13		930			
Type VI (Raw Data)																									
NJ Reduced																									
Other																									
EDD (circle if required)										Locus EIM (default)															
										Other															
										Temperature Upon Receipt		21-24 °C				Custody Seals Intact?		Yes		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

Acct. # 14739

Group # 138270 For Lancaster Lab

laboratories use only
Sample # 7021447-64

Instructions on reverse side correspond with circled numbers

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Issued by Dept. 40 Management

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

7053.01

Environmental Sample Administration
Receipt Documentation Log

C# 1382701

Client/Project: Exxon mobil

Date of Receipt: 4.13.13

Time of Receipt: 930

Source Code: 50-1

Shipping Container Sealed: YES NO

Custody Seal Present *: YES NO

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

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2737	2.1	TB	WI	X	B	
2	↓	2.4	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

WS-BKG-001 (surface) 041213 Time = 840
" " MS 041213 Time =
on vials 850 on containers 845
" " MSD 041213 Time =
850

Unpacker Signature/Emp#:

Bunny/M 2299

Date/Time:

4.13.13 1001

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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