

ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

April 10, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/09/2013

Group Number: 1381321

SDG: PEG11

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LLI) #

WS-003-04072013(SURFACE) Grab Surface Water	7014544
WS-003-04072013(SURFACE)MS Grab Surface Water	7014545
WS-003-04072013(SURFACE)MSD Grab Surface Water	7014546
WS-003-04072013(SURFACE)DUP Grab Surface Water	7014547
WS-002-04072013(SURFACE) Grab Surface Water	7014548
WS-BKG-001-04072013(SURFACE) Grab Surface Water	7014549
WS-005-04072013(SURFACE) Grab Surface Water	7014550
WS-001-04072013(SURFACE) Grab Surface Water	7014551
WS-001-04072013(0.5-1.0) Grab Surface Water	7014552
WS-004-04072013(SURFACE) Grab Surface Water	7014553
WS-004-04072013(0.5-1.0) Grab Surface Water	7014554
WS-007-04072013(SURFACE) Grab Surface Water	7014555
WS-007-04072013(0.5-1.0) Grab Surface Water	7014556
WS-006-04072013(SURFACE) Grab Surface Water	7014557
WS-006-04072013(0.5-1.0) Grab Surface Water	7014558
TB-WS-03-04072013 Water	7014559

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

ELECTRONIC ARCADIS
COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS
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Attn: Lyndi Mott

ELECTRONIC ExxonMobil
COPY TO

Attn: Scott Bushroe

ELECTRONIC ExxonMobil

Attn: Edward Yuen

COPY TO
ELECTRONIC
COPY TO

ExxonMobil Pipeline Company

Attn: Timothy S. Martin

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1381321

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 #: C130991AA (Sample number(s): 7014544-7014546, 7014548-7014559 UNSPK: 7014544)

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

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13099WAB026 (Sample number(s): 7014544-7014546, 7014548-7014558 UNSPK: 7014544)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7014552

Sample #s: 7014544, 7014545, 7014555, 7014556

Reporting limits were raised due to limited sample volume.

Sample #s: 7014552

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

SW-846 6010B, Metals

Batch #: 130991848003 (Sample number(s): 7014544-7014558 UNSPK: 7014544 BKG: 7014544)

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

Sample Description: WS-003-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014544
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 08:55 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-003 SDG#: PEG11-01BKG

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-003-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014544
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 08:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-003 SDG#: PEG11-01BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	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.	0.011	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
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	14.1	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	0.0249	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-003-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014544
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 08:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-003 SDG#: PEG11-01BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.10	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0012 J	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	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C130991AA	04/09/2013 23:36	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/09/2013 23:36	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 02:55	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 19:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 09:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-003-04072013 (SURFACE)MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014545
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:00 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-003 SDG#: PEG11-01MS

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	41	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.2	0.1	0.5	1
02898	Benzene	71-43-2	5.9	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.4	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.5	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.5	0.1	0.5	1
02898	Bromoform	75-25-2	5.2	0.1	0.5	1
02898	Bromomethane	74-83-9	5.5	0.1	0.5	1
02898	2-Butanone	78-93-3	41	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	6.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	6.0	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.9	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.8	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.9	0.1	0.5	1
02898	Chloroethane	75-00-3	5.5	0.1	0.5	1
02898	Chloroform	67-66-3	6.0	0.1	0.5	1
02898	Chloromethane	74-87-3	4.8	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.7	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.9	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.4	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.1	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.1	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.7	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.9	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.7	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.8	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	6.2	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.5	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.2	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.9	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.7	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.1	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.7	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.2	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.5	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.8	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	6.0	0.1	0.5	1
02898	Freon 113	76-13-1	6.8	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	6.6	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	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	23	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.8	0.2	0.5	1

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

Sample Description: WS-003-04072013 (SURFACE)MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014545
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:00 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-003 SDG#: PEG11-01MS

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	5.8	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.9	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.5	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	26	2.0	5.0	1
02898	Toluene	108-88-3	6.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.2	0.1	0.5	1
02898	Trichloroethene	79-01-6	6.1	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.2	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.8	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	6.0	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	5.4	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.011	0.054	1
08357	Acenaphthylene	208-96-8	1.1	0.011	0.054	1
08357	Anthracene	120-12-7	0.83	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	0.83	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	0.89	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.011	0.054	1
08357	Chrysene	218-01-9	0.94	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	0.86	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	0.92	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	1.1	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	1.1	0.011	0.054	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	31.6	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.152	0.0068	0.0200	1
07046	Barium	7440-39-3	2.09	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0506	0.00036	0.0050	1

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

Sample Description: WS-003-04072013 (SURFACE)MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014545
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:00 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-003 SDG#: PEG11-01MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	6.92	0.0640	0.200	1
07051	Chromium	7440-47-3	0.208	0.0011	0.0150	1
07055	Lead	7439-92-1	0.156	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.48	0.0606	0.100	1
07061	Nickel	7440-02-0	0.518	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.141	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0487	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.516	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	C130991AA	04/09/2013 23:58	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/09/2013 23:58	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 03:23	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 19:31	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-003-04072013 (SURFACE)MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014546
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:05 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-003 SDG#: PEG11-01MSD

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	41	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.1	0.1	0.5	1
02898	Benzene	71-43-2	6.0	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.4	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.4	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.5	0.1	0.5	1
02898	Bromoform	75-25-2	5.1	0.1	0.5	1
02898	Bromomethane	74-83-9	5.6	0.1	0.5	1
02898	2-Butanone	78-93-3	41	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	6.9	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.9	0.1	0.5	1
02898	Chloroethane	75-00-3	5.6	0.1	0.5	1
02898	Chloroform	67-66-3	6.1	0.1	0.5	1
02898	Chloromethane	74-87-3	4.9	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.7	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.7	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.3	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.1	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.2	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.6	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.9	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.7	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.9	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	6.3	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.6	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.9	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.3	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	7.0	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.7	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.1	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.7	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.3	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.6	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.9	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	6.1	0.1	0.5	1
02898	Freon 113	76-13-1	6.8	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	6.6	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	6.1	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	6.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	23	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.8	0.2	0.5	1

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

Sample Description: WS-003-04072013 (SURFACE)MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014546
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:05 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-003 SDG#: PEG11-01MSD

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	6.0	0.1	0.5	1
02898	Styrene	100-42-5	5.8	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.9	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	26	2.0	5.0	1
02898	Toluene	108-88-3	6.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	6.0	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	6.0	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.2	0.1	0.5	1
02898	Trichloroethene	79-01-6	6.2	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.2	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.8	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	6.0	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	5.5	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	1.1	0.010	0.052	1
08357	Anthracene	120-12-7	0.77	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.99	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.79	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.97	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.82	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	1.0	0.010	0.052	1
08357	Chrysene	218-01-9	0.90	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.80	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.052	1
08357	Fluorene	86-73-7	1.0	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.052	1
08357	Pyrene	129-00-0	1.0	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	31.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.146	0.0068	0.0200	1
07046	Barium	7440-39-3	2.03	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0496	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.85	0.0640	0.200	1

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

Sample Description: WS-003-04072013 (SURFACE)MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014546
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:05 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-003 SDG#: PEG11-01MSD

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	0.204	0.0011	0.0150	1
07055	Lead	7439-92-1	0.152	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.41	0.0606	0.100	1
07061	Nickel	7440-02-0	0.508	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.141	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0477	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.506	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00096	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	C130991AA	04/10/2013 00:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 00:21	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 03:50	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 19:35	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-003-04072013 (SURFACE) DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014547
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 08:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-003 SDG#: PEG11-01DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	13.8	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	0.0241	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.04	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0014 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.50	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 19:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-002-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014548
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:55 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-002 SDG#: PEG11-02

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

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

Sample Description: WS-002-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014548
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-002 SDG#: PEG11-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	13.4	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	0.0172	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.96	0.0640	0.200	1

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

Sample Description: WS-002-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014548
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 09:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-002 SDG#: PEG11-02

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 00:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 00:43	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 04:17	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 19:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014549
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 10:20 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-BKG SDG#: PEG11-03

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

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

Sample Description: WS-BKG-001-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014549
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 10:20 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-BKG SDG#: PEG11-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	23.1	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	0.0315	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.11	0.0640	0.200	1

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

Sample Description: WS-BKG-001-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014549
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 10:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-BKG SDG#: PEG11-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.91	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 01:05	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 01:05	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 04:44	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 19:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-005-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014550
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 11:10 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7-005 SDG#: PEG11-04

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

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

Sample Description: WS-005-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014550
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 11:10 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-005 SDG#: PEG11-04

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	14.2	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	0.0152	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.12	0.0640	0.200	1

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

Sample Description: WS-005-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014550
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 11:10 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

7-005 SDG#: PEG11-04

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	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 01:28	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 01:28	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 05:11	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 19:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-001-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014551
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 12:40 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70011 SDG#: PEG11-05

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

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

Sample Description: WS-001-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014551
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 12:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70011 SDG#: PEG11-05

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	0.2 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.6	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	0.0246	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.56	0.0640	0.200	1

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

Sample Description: WS-001-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014551
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 12:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70011 SDG#: PEG11-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.61	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0026 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0021 J	0.0013	0.0050	1
		SW-846 7470A	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	C130991AA	04/10/2013 01:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 01:50	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 05:38	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-001-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014552
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 12:45 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70012 SDG#: PEG11-06

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

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

Sample Description: WS-001-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014552
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 12:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70012 SDG#: PEG11-06

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	0.2 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	14.9	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	0.0199	0.00033	0.0050	1

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

Sample Description: WS-001-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014552
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 12:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70012 SDG#: PEG11-06

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.44	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	1.54	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C130991AA	04/10/2013 02:11	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 02:11	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 06:05	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-004-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014553
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 13:10 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70041 SDG#: PEG11-07

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

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

Sample Description: WS-004-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014553
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 13:10 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70041 SDG#: PEG11-07

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	0.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.013 J	0.010	0.052	1
08357	Fluorene	86-73-7	0.028 J	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	0.086	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.049 J	0.010	0.052	1
08357	Naphthalene	91-20-3	0.049 J	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.014 J	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0413	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.97	0.0640	0.200	1

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

Sample Description: WS-004-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014553
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 13:10 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70041 SDG#: PEG11-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0027 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0061 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.72	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	0.0035 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 02:33	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 02:33	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 06:33	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-004-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014554
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 13:15 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70042 SDG#: PEG11-08

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

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

Sample Description: WS-004-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014554
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 13:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70042 SDG#: PEG11-08

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	0.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.1	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	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	0.014 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.023 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.020 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.020 J	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	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.083	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.049 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.052	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.018 J	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	18.4	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	0.0502	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.23	0.0640	0.200	1

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

Sample Description: WS-004-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014554
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 13:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70042 SDG#: PEG11-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0054 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0118 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.90	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	0.0070	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 02:55	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 02:55	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 07:00	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-007-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014555
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:15 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70071 SDG#: PEG11-09

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

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

Sample Description: WS-007-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014555
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70071 SDG#: PEG11-09

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	0.7	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.0	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.014 J	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	0.011 J	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	0.011 J	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.051 J	0.011	0.053	1
08357	Fluorene	86-73-7	0.037 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.068	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.038 J	0.011	0.053	1
08357	Naphthalene	91-20-3	0.038 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.034 J	0.032	0.053	1
08357	Pyrene	129-00-0	0.035 J	0.011	0.053	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	14.9	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0314	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-007-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014555
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70071 SDG#: PEG11-09

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	
01750	Calcium	7440-70-2	3.30	0.0640	0.200	1
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	1.62	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0029 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	0.0033 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 03:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 03:18	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 07:27	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:15	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-007-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014556
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:20 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70072 SDG#: PEG11-10

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

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

Sample Description: WS-007-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014556
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70072 SDG#: PEG11-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.0	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.012 J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.032 J	0.011	0.053	1
08357	Fluorene	86-73-7	0.031 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.048 J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.026 J	0.011	0.053	1
08357	Naphthalene	91-20-3	0.043 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	0.017 J	0.011	0.053	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	15.3	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0309	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-007-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014556
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70072 SDG#: PEG11-10

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	
01750	Calcium	7440-70-2	3.35	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0042 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0053 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0026 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	0.0041 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 03:40	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 03:40	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 07:54	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-006-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014557
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:30 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70061 SDG#: PEG11-11

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

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

Sample Description: WS-006-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014557
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70061 SDG#: PEG11-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	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	N.D.	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	14.4	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	0.0170	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.22	0.0640	0.200	1

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

Sample Description: WS-006-04072013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014557
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70061 SDG#: PEG11-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.55	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 04:02	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 04:02	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 08:21	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:22	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-006-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014558
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:35 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

70062 SDG#: PEG11-12

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

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

Sample Description: WS-006-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014558
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:35 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70062 SDG#: PEG11-12

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	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	14.9	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	0.0194	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.34	0.0640	0.200	1

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

Sample Description: WS-006-04072013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014558
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013 14:35 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:12

Houston TX 77210-4416

70062 SDG#: PEG11-12

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	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.59	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/10/2013 04:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 04:24	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAB026	04/10/2013 08:48	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAB026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:37	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07046	Barium	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07066	Silver	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848003	04/09/2013 20:26	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713003	04/10/2013 10:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848003	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713003	04/09/2013 16:45	Nelli S Markaryan	1

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

Sample Description: TB-WS-03-04072013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014559
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7WS03 SDG#: PEG11-13TB*

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

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

Sample Description: TB-WS-03-04072013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014559
LLI Group # 1381321
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/07/2013

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:12

PO Box 4416

Houston TX 77210-4416

7WS03 SDG#: PEG11-13TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C130991AA	04/09/2013 23:14	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/09/2013 23:14	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/10/13 at 05:12 PM

Group Number: 1381321

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: C130991AA	Sample number(s): 7014544-7014546, 7014548-7014559								
Acetone	N.D.	3.0	5.0	ug/l	107		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	108		61-130		
Benzene	N.D.	0.1	0.5	ug/l	106		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	99		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	101		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	99		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	103		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	108		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	116		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	102		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	110		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	93		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	105		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	118		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	99		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	94		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	96		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	86		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	113		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	115		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	112		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	128		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	94		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	115		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	108		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	90		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	74		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	115		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	120		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: 1381321

Reported: 04/10/13 at 05:12 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	110		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	91		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	89		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	106		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	106		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	107		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	93		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	113		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	105		65-131		
Toluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	115		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	113		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	116		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	97		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	111		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	92		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	97		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	108		80-120		

Batch number: 13099WAB026

Sample number(s): 7014544-7014546, 7014548-7014558

Acenaphthene	N.D.	0.010	0.050	ug/l	99		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	104		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	104		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	105		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	115		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	98		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	107		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	104		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	96		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	105		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	102		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	98		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	104		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	100		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	102		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	105		71-116		

Batch number: 130991848003

Sample number(s): 7014544-7014558

Arsenic	N.D.	0.0068	0.0200	mg/l	104		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	107		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	105		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	103		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	107		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	107		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	102		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	108		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	101		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	106		90-110		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381321

Reported: 04/10/13 at 05:12 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 130995713003	Sample number(s): 7014544-7014558								
Mercury	N.D.	0.00007	0.00020	mg/l	94		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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: C130991AA	Sample number(s): 7014544-7014546, 7014548-7014559 UNSPK: 7014544								
Acetone	108	109	57-163	0	30				
Allyl Chloride	123	121	67-139	2	30				
Benzene	118	120	87-126	1	30				
Bromobenzene	107	107	80-123	0	30				
Bromochloromethane	109	107	82-125	2	30				
Bromodichloromethane	110	110	82-133	0	30				
Bromoform	103	102	60-138	1	30				
Bromomethane	111	112	41-145	1	30				
2-Butanone	109	110	63-146	1	30				
n-Butylbenzene	121	122	83-131	1	30				
sec-Butylbenzene	120	121	84-128	1	30				
tert-Butylbenzene	119	120	84-135	1	30				
Carbon Tetrachloride	137	137	81-148	0	30				
Chlorobenzene	117	118	78-133	1	30				
Chloroethane	110	111	70-139	1	30				
Chloroform	121	122	86-136	1	30				
Chloromethane	97	98	55-152	1	30				
2-Chlorotoluene	115	115	81-120	0	30				
4-Chlorotoluene	113	114	82-119	1	30				
1,2-Dibromo-3-chloropropane	119	114	43-143	4	30				
Dibromochloromethane	108	106	79-125	1	30				
1,2-Dibromoethane	101	101	84-127	0	30				
Dibromomethane	103	104	83-126	2	30				
1,2-Dichlorobenzene	113	112	83-117	0	30				
1,3-Dichlorobenzene	117	117	81-118	0	30				
1,4-Dichlorobenzene	114	114	79-120	0	30				
Dichlorodifluoromethane	97	97	28-136	0	30				
1,1-Dichloroethane	125	126	88-136	1	30				
1,2-Dichloroethane	111	111	82-135	0	30				
1,1-Dichloroethene	130	132	83-150	2	30				
cis-1,2-Dichloroethene	117	118	82-129	1	30				
trans-1,2-Dichloroethene	125	126	88-127	1	30				
Dichlorofluoromethane	138	141	59-176	2	30				
1,2-Dichloropropane	114	114	91-126	0	30				
1,3-Dichloropropane	102	102	80-127	0	30				
2,2-Dichloropropane	134	134	80-134	0	30				
1,1-Dichloropropene	125	125	86-139	0	30				
cis-1,3-Dichloropropene	110	111	74-132	1	30				
trans-1,3-Dichloropropene	97	97	71-128	1	30				
Ethyl ether	106	105	67-127	1	30				

*- 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: 04/10/13 at 05:12 PM

Group Number: 1381321

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	121	122	80-140	1	30				
Freon 113	137	136	87-158	0	30				
Hexachlorobutadiene	133*	132*	65-128	0	30				
Isopropylbenzene	122	123	81-133	1	30				
p-Isopropyltoluene	123	124	84-124	1	30				
Methyl Tertiary Butyl Ether	96	96	82-132	1	30				
4-Methyl-2-Pentanone	93	94	69-149	0	30				
Methylene Chloride	115	116	84-122	1	30				
n-Propylbenzene	118	119	79-131	1	30				
Styrene	116	116	63-151	0	30				
1,1,1,2-Tetrachloroethane	117	117	87-126	0	30				
1,1,2,2-Tetrachloroethane	98	98	75-131	0	30				
Tetrachloroethene	130*	132*	75-129	1	30				
Tetrahydrofuran	104	105	56-154	1	30				
Toluene	118	119	83-127	0	30				
1,2,3-Trichlorobenzene	119	121	73-125	2	30				
1,2,4-Trichlorobenzene	118	120	77-120	2	30				
1,1,1-Trichloroethane	133	133	85-140	0	30				
1,1,2-Trichloroethane	103	103	85-129	0	30				
Trichloroethene	122	124	85-131	1	30				
Trichlorofluoromethane	124	124	67-161	0	30				
1,2,3-Trichloropropane	96	96	76-120	0	30				
1,2,4-Trimethylbenzene	119	119	87-126	0	30				
1,3,5-Trimethylbenzene	118	118	89-129	0	30				
Vinyl Chloride	108	109	65-151	2	30				
Xylene (Total)	119	120	81-137	1	30				

Batch number: 13099WAB026 Sample number(s): 7014544-7014546,7014548-7014558 UNSPK: 7014544

Acenaphthene	93	93	59-127	4	30
Acenaphthylene	101	103	33-146	3	30
Anthracene	77	74	69-119	9	30
Benzo(a)anthracene	96	96	67-124	4	30
Benzo(a)pyrene	77	77	64-123	5	30
Benzo(b)fluoranthene	97	94	61-133	8	30
Benzo(g,h,i)perylene	82	79	36-138	9	30
Benzo(k)fluoranthene	100	98	59-128	6	30
Chrysene	87	88	62-118	4	30
Dibenz(a,h)anthracene	80	78	32-141	7	30
Fluoranthene	101	103	65-123	3	30
Fluorene	99	101	69-124	3	30
Indeno(1,2,3-cd)pyrene	85	105	29-143	17	30
1-Methylnaphthalene	101	102	67-117	4	30
2-Methylnaphthalene	103	105	71-126	3	30
Naphthalene	103	104	58-131	4	30
Phenanthrene	98	100	67-117	3	30
Pyrene	98	98	59-125	5	30

Batch number: 130991848003	Sample number(s): 7014544-7014558 UNSPK: 7014544 BKG: 7014544							
Arsenic	102	97	81-123	4	20	N.D.	N.D.	0 (1) 20
Barium	103	100	78-118	3	20	0.0249	0.0241	3 (1) 20
Cadmium	101	99	83-116	2	20	N.D.	N.D.	0 (1) 20
Calcium	96	94	81-118	1	20	3.10	3.04	2 20

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381321

Reported: 04/10/13 at 05:12 PM

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Chromium	103	101	81-120	2	20	0.0012 J	0.0014 J	17 (1)	20
Lead	104	102	75-125	2	20	N.D.	N.D.	0 (1)	20
Magnesium	97	94	75-125	2	20	1.54	1.50	2	20
Nickel	103	101	86-115	2	20	0.0018 J	N.D.	200* (1)	20
Selenium	94	94	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	97	95	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	103	101	90-111	2	20	N.D.	N.D.	0 (1)	20

Batch number: 130995713003

Sample number(s): 7014544-7014558 UNSPK: 7014544 BKG: 7014544

Mercury	100	96	80-120	4	20	N.D.	N.D.	0 (1)	20
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Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge

Batch number: C130991AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
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7014544	99	92	100	96
7014545	99	92	101	97
7014546	99	92	101	97
7014548	99	93	100	96
7014549	100	93	100	96
7014550	99	93	100	96
7014551	100	92	100	97
7014552	99	92	100	97
7014553	100	93	100	97
7014554	99	93	100	98
7014555	99	93	100	98
7014556	98	92	100	97
7014557	100	93	99	96
7014558	99	92	100	96
7014559	99	91	102	96
Blank	98	92	102	96
LCS	99	93	101	97
MS	99	92	101	97
MSD	99	92	101	97

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

Batch number: 13099WAB026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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7014544	91	74	88
7014545	95	92	93

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381321

Reported: 04/10/13 at 05:12 PM

Surrogate Quality Control

7014546	95	87	94
7014548	96	89	90
7014549	94	94	85
7014550	92	82	87
7014551	95	93	91
7014552	72	57*	69
7014553	81	65	82
7014554	81	73	82
7014555	84	79	83
7014556	84	79	84
7014557	93	93	89
7014558	90	76	86
Blank	97	107	93
LCS	97	108	96
MS	95	92	93
MSD	95	87	94

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1381321 Sample # 7014544-59
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks																																																																																																																						
Preservation Code				Total # of Containers				Preservation Codes																																																																																																																																		
Facility #/SID Site Address <u>ARCADIS - Mayflower Pipe Incident</u> ExxonMobil PM <u>Scott Bushroe</u> Consultant/Office <u>ARCADIS</u> Consultant PM <u>Stephen Barrick</u> Sampler <u>Jon LeMessurier</u>				Cost Center/AFE Consultant Phone # <u>919-302-6799</u> 315-558-1904				Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Water ☐ Oil ☐				H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other												Date Analysis Questions: <u>Lyndi Mott-ARCADIS</u>																																																																																																																		
Sample Identification				Collected				Grab Composite				VOCs-82260B PAH-82260 SIM RCRA-Metals 6010																																																																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Oil</th> <th>Total # of Containers</th> </tr> </thead> <tbody> <tr><td>WS-003 (Surface)</td><td>4/7/13</td><td>8:55</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-003 (Surface) MS</td><td>4/7/13</td><td>9:00</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-003 (Surface) MSD</td><td>4/7/13</td><td>9:05</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-002 (Surface)</td><td>4/7/13</td><td>9:55</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-BK6-001 (Surface)</td><td>4/7/13</td><td>10:20</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-005 (Surface)</td><td>4/7/13</td><td>11:10</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-001 (Surface)</td><td>4/7/13</td><td>12:40</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-001 (0.5-1.0)</td><td>4/7/13</td><td>12:45</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-004 (Surface)</td><td>4/7/13</td><td>13:10</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-004 (0.5-1.0)</td><td>4/7/13</td><td>13:15</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-007 (Surface)</td><td>4/7/13</td><td>14:15</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> <tr><td>WS-007 (0.5-1.0)</td><td>4/7/13</td><td>14:20</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td>6</td></tr> </tbody> </table>				Sample Identification	Date	Time	Grab	Composite	Soil	Water	Oil	Total # of Containers	WS-003 (Surface)	4/7/13	8:55	✓			✓		6	WS-003 (Surface) MS	4/7/13	9:00	✓			✓		6	WS-003 (Surface) MSD	4/7/13	9:05	✓			✓		6	WS-002 (Surface)	4/7/13	9:55	✓			✓		6	WS-BK6-001 (Surface)	4/7/13	10:20	✓			✓		6	WS-005 (Surface)	4/7/13	11:10	✓			✓		6	WS-001 (Surface)	4/7/13	12:40	✓			✓		6	WS-001 (0.5-1.0)	4/7/13	12:45	✓			✓		6	WS-004 (Surface)	4/7/13	13:10	✓			✓		6	WS-004 (0.5-1.0)	4/7/13	13:15	✓			✓		6	WS-007 (Surface)	4/7/13	14:15	✓			✓		6	WS-007 (0.5-1.0)	4/7/13	14:20	✓			✓		6																		
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7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by Relinquished by Relinquished by				Date <u>4/8/13</u> Date Date				Time <u>1630</u> Time Time				Received by Received by Received by				Date Date Date		Time Time Time																																																																																																																				
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other				EDD (circle if required) Locus EIM (default) Other				Relinquished by Commercial Carrier UPS _____ FedEx X Other _____				Received by Date <u>4/9/13</u>				Time <u>0925</u>				Temperature Upon Receipt <u>17-5.2°C</u>		Custody Seals Intact? Yes No																																																																																																																				

eurofins

For Lancaster Laboratories use only
Acct. # 14739 Group # 1381321 Sample # 7014544-59
Instructions on reverse side correspond with circle numbers.

[illegible]

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7053.01

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

Deborah A. Neslund *A# 14739, Gr.# 1381321, Samples 7014544-59*

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Monday, April 08, 2013 8:46 PM
To: SA Env Entry; Kathy Klinefelter
Subject: FW: COCs for Surface Water
Attachments: XOM_Mayflower_04062013.pdf; XOM_Mayflower_04072013.pdf

Please add the collection date to the sample ids. Metals is RCRA metals, including mercury, plus nickel and vanadium.

TAT is 24 hours or best available.

Lyndi Mott

Lyndi Mott | Project Chemistry/Data Quality Specialist | lyndi.mott@arcadis-us.com
ARCADIS U.S., Inc. | 2929 Briarpark Drive | Suite 300 | Houston, TX 77042
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4/9/2013

Kathy Klinefelter*A# 14739, Gr. # 1381321, Samples 7014544-59*

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Tuesday, April 09, 2013 11:46 AM
To: SA Env Entry; Kathy Klinefelter
Subject: Surface Water cocs Ca-Mg Hardness Added
Attachments: XOM_Mayflower_04072013.pdf; XOM_Mayflower_04082013.pdf

Please add calcium, magnesium and Ca-Mg Hardness calculation to the sw samples listed on these cocs.

The Project Team has decided that we would need Ca-Mg Hardness calculation on each surface water sample submitted from 040613 collection date going forward.

Thank you,

Lyndi

Lyndi Mott | Project Chemistry/Data Quality Specialist | lyndi.mott@arcadis-us.com
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Please consider the environment before printing this email.

From: Mott, Lyndi
Sent: Monday, April 08, 2013 7:43 PM
To: SA Env Entry; 'Kathy Klinefelter'
Subject: FW: COCs for Surface Water

Please add the collection date to the sample ids. Metals is RCRA metals, including mercury, plus nickel and vanadium.

TAT is 24 hours or best available.

Lyndi Mott

Lyndi Mott | Project Chemistry/Data Quality Specialist | lyndi.mott@arcadis-us.com
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4/9/2013

Environmental Sample Administration 1381321
Receipt Documentation LogClient/Project: ARCADIS-MAYFLOWERShipping Container Sealed: YES NODate of Receipt: 4/9/13Custody Seal Present *: YES NOTime of Receipt: 0925

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

Source Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2783	2.1	TB	WI	Y	B	
2		1.9					
3		5.2					
4		2.5					
5		1.7					
6		2.7					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Daneshund / 208 Date/Time: 4/9/13 / 1015

Environmental Sample Administration 1381321
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7	2783	1.7	TB	WI	Y	B	
8	↓	3.3	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Danesl / 208 Date/Time: 4/9/13 / 1015

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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