

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

June 06, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/30/2013

Group Number: 1393393

SDG: PEH89

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LLI) #

WS-003(Surface)052913 Grab Surface Water	7074562
WS-019(Surface)052913 Grab Surface Water	7074563
WS-002-BKG(Surface)052913 Grab Surface Water	7074564
WS-002(Surface)052913 Grab Surface Water	7074565
WS-008(Surface)052913 Grab Surface Water	7074566
WS-008(Surface)052913MS Grab Surface Water	7074567
WS-008(Surface)052913MSD Grab Surface Water	7074568
WS-008(Surface)052913DUP Grab Surface Water	7074569
WS-001(Surface)052913 Grab Surface Water	7074570
WS-001(0.5-1.0)052913 Grab Surface Water	7074571
WS-004(Surface)052913 Grab Surface Water	7074572
WS-004(0.5-1.0)052913 Grab Surface Water	7074573
WS-007(Surface)052913 Grab Surface Water	7074574
WS-007(0.5-1.0)052913 Grab Surface Water	7074575
WS-006(Surface)052913 Grab Surface Water	7074576
WS-006(0.5-1.0)052913 Grab Surface Water	7074577
WS-011(1.5-2.0)052913 Grab Surface Water	7074578
WS-011(5.5-6.0)052913 Grab Surface Water	7074579
WS-014(1.5-2.0)052913 Grab Surface Water	7074580
WS-014(4.5-5.0)052913 Grab Surface Water	7074581
WS-012(1.5-2.0)052913 Grab Surface Water	7074582
WS-012(5.0-5.5)052913 Grab Surface Water	7074583
WS-010(1.5-2.0)052913 Grab Surface Water	7074584
WS-018(Surface)052913 Grab Surface Water	7074585
WS-FB-34-052913 Grab Water	7074586
WS-TB-57-052913 Water	7074587

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

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer
ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee
ELECTRONIC COPY TO	ARCADIS	Attn: Jamie Pritchard
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1393393

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

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

Batch #: 13150WAG026 (Sample number(s): 7074562-7074568, 7074570-7074578 UNSPK: 7074566)

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

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

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7074563, 7074567, 7074570, 7074571, 7074572, 7074573, 7074574, 7074575, MS

Batch #: 13150WAJ026 (Sample number(s): 7074579-7074585)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7074580

Sample #s: 7074579, 7074581, 7074582, 7074583, 7074584, 7074585

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

Sample #s: 7074580

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

Sample #s: 7074563, 7074567, 7074570, 7074571, 7074572, 7074573, 7074574, 7074575

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.

EPA 1664A, Wet Chemistry

Batch #: 13151807901A (Sample number(s): 7074562-7074582 UNSPK: 7074566 BKG: 7074566)

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

The duplicate RPD for the following analyte(s) exceeded the acceptance window: HEM (oil & grease)

Batch #: 13154807901A (Sample number(s): 7074583-7074585 UNSPK: P73110)

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

Sample #s: 7074566

The HEM analysis was repeated on 6/3/2013 using the second bottle submitted. The result of the second trial is ND at a MDL of 1.4 mg/l.

Sample Description: WS-003(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074562
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 08:00 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29003 SDG#: PEH89-01

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

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

Sample Description: WS-003(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074562
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 08:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29003 SDG#: PEH89-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.8	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	0.0191	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-003 (Surface) 052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074562
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 08:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29003 SDG#: PEH89-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.92	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131541AA	06/03/2013 18:01	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131541AA	06/03/2013 18:01	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 17:20	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:34	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-019(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074563
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29019 SDG#: PEH89-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	6.2	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-019(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074563
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29019 SDG#: PEH89-02

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	12	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	0.027 J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.017 J	0.011	0.053	1
08357	Anthracene	120-12-7	0.054	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.053 J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.059	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.15	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.075	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.047 J	0.011	0.053	1
08357	Chrysene	218-01-9	0.18	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.017 J	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.12	0.011	0.053	1
08357	Fluorene	86-73-7	0.079	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.070	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.23	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.33	0.011	0.053	1
08357	Naphthalene	91-20-3	0.086	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.23	0.032	0.053	1
08357	Pyrene	129-00-0	0.15	0.011	0.053	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	165	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0563	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1

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

Sample Description: WS-019(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074563
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29019 SDG#: PEH89-02

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	23.6	0.0640	0.200	1
07051	Chromium	7440-47-3	0.202	0.0011	0.0150	1
07055	Lead	7439-92-1	0.287	0.0051	0.0150	1
01757	Magnesium	7439-95-4	25.8	0.0606	0.100	1
07061	Nickel	7440-02-0	0.183	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.0207	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.302	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00011 J	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131541AA	06/03/2013 18:23	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131541AA	06/03/2013 18:23	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 17:47	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:38	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-019(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074563
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29019 SDG#: PEH89-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-002-BKG(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074564
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29BK2 SDG#: PEH89-03

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

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

Sample Description: WS-002-BKG(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074564
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29BK2 SDG#: PEH89-03

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	35.6	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	0.0375	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.29	0.0640	0.200	1

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

Sample Description: WS-002-BKG(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074564
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29BK2 SDG#: PEH89-03

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	0.0020 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.62	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	0.0031 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/03/2013 21:32	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 21:32	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 18:15	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-002(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074565
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:50 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29002 SDG#: PEH89-04

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-002(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074565
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:50 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29002 SDG#: PEH89-04

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	17.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0184	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.96	0.0640	0.200	1

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

Sample Description: WS-002(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074565
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:50 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29002 SDG#: PEH89-04

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	1.95	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
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/03/2013 21:54	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 21:54	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 18:42	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-008(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074566
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29008 SDG#: PEH89-05BKG

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	3.0 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.5	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-008(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074566
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05BKG

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	0.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	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	0.016 J	0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	0.013 J	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	0.013 J	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	0.014 J	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.057	1
08357	Chrysene	218-01-9	0.023 J	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	0.036 J	0.011	0.057	1
08357	Fluorene	86-73-7	0.015 J	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.057	1
08357	Naphthalene	91-20-3	N.D.	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	0.040 J	0.011	0.057	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	81.0	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	0.0607	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	17.5	0.0640	0.200	1

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

Sample Description: WS-008(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074566
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05BKG

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	0.0020 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	9.07	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	0.0025 J	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	10.1	1.4	5.0	1
The HEM analysis was repeated on 6/3/2013 using the second bottle submitted. The result of the second trial is ND at a MDL of 1.4 mg/l.						

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	C131542AA	06/03/2013 22:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 22:17	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 15:59	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-008(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074566
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-008(Surface)052913MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074567
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29008 SDG#: PEH89-05MS

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	43	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.8	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	5.6	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.4	0.1	0.5	1
02898	Bromoform	75-25-2	5.9	0.1	0.5	1
02898	Bromomethane	74-83-9	4.9	0.1	0.5	1
02898	2-Butanone	78-93-3	35	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.4	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.4	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.6	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.1	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.8	0.1	0.5	1
02898	Chloroethane	75-00-3	4.8	0.1	0.5	1
02898	Chloroform	67-66-3	5.6	0.1	0.5	1
02898	Chloromethane	74-87-3	4.1	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.4	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.6	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.9	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.8	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.4	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.5	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.4	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.5	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.4	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.5	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.4	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.6	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.2	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.6	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.4	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.7	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.7	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.1	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.0	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.5	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.7	0.1	0.5	1
02898	Freon 113	76-13-1	6.2	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.2	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.7	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.5	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.9	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.7	0.2	0.5	1

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

Sample Description: WS-008(Surface)052913MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074567
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29008 SDG#: PEH89-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.4	0.1	0.5	1
02898	Styrene	100-42-5	5.8	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.7	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.0	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	22	2.0	5.0	1
02898	Toluene	108-88-3	6.3	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.8	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.9	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.7	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.1	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.2	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.4	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.6	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.87	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.97	0.010	0.052	1
08357	Anthracene	120-12-7	0.80	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.84	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.53	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.68	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.53	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.66	0.010	0.052	1
08357	Chrysene	218-01-9	0.60	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.49	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.88	0.010	0.052	1
08357	Fluorene	86-73-7	0.92	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.53	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.97	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.97	0.010	0.052	1
08357	Naphthalene	91-20-3	0.98	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.90	0.031	0.052	1
08357	Pyrene	129-00-0	0.84	0.010	0.052	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	101	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.150	0.0068	0.0200	1
07046	Barium	7440-39-3	2.10	0.00033	0.0050	1

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

Sample Description: WS-008(Surface)052913MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074567
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.0502	0.00036	0.0050	1
01750	Calcium	7440-70-2	21.9	0.0640	0.200	1
07051	Chromium	7440-47-3	0.202	0.0011	0.0150	1
07055	Lead	7439-92-1	0.153	0.0051	0.0150	1
01757	Magnesium	7439-95-4	11.3	0.0606	0.100	1
07061	Nickel	7440-02-0	0.516	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.157	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0482	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.525	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00089	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	35.0	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/03/2013 22:39	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 22:39	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 16:26	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:23	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-008(Surface)052913MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074567
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-008(Surface)052913MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074568
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29008 SDG#: PEH89-05MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	38	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.9	0.1	0.5	1
02898	Benzene	71-43-2	6.0	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.6	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.3	0.1	0.5	1
02898	Bromoform	75-25-2	5.7	0.1	0.5	1
02898	Bromomethane	74-83-9	4.9	0.1	0.5	1
02898	2-Butanone	78-93-3	36	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.2	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.4	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.5	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.0	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	4.9	0.1	0.5	1
02898	Chloroform	67-66-3	5.5	0.1	0.5	1
02898	Chloromethane	74-87-3	4.2	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.4	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.2	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.6	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.3	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.4	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.4	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.3	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.5	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.4	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.1	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.5	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.5	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.2	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.7	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.6	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.1	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.9	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.6	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.5	0.1	0.5	1
02898	Freon 113	76-13-1	6.1	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.2	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.4	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.0	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.6	0.2	0.5	1

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

Sample Description: WS-008(Surface)052913MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074568
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05MSD

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	5.2	0.1	0.5	1
02898	Styrene	100-42-5	5.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.6	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	5.9	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	2.0	5.0	1
02898	Toluene	108-88-3	6.0	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.8	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.8	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.7	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.1	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.3	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.6	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.052	1
08357	Anthracene	120-12-7	0.94	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.2	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.92	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	1.0	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.010	0.052	1
08357	Chrysene	218-01-9	0.99	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.94	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.85	0.010	0.052	1
08357	Fluorene	86-73-7	1.1	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	1.1	0.031	0.052	1
08357	Pyrene	129-00-0	1.1	0.010	0.052	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	101	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	2.11	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0501	0.00036	0.0050	1
01750	Calcium	7440-70-2	22.0	0.0640	0.200	1

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

Sample Description: WS-008 (Surface) 052913MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074568
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05MSD

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	0.154	0.0051	0.0150	1
01757	Magnesium	7439-95-4	11.2	0.0606	0.100	1
07061	Nickel	7440-02-0	0.517	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.155	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0493	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.525	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00087	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	32.7	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/03/2013 23:01	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 23:01	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 16:53	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:27	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-008(Surface)052913DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074569
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29008 SDG#: PEH89-05DUP

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	81.9	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	0.0616	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	17.7	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0021 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	9.14	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0039 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0029 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.4 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)052913DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074569
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29008 SDG#: PEH89-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-001(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074570
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:40 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29011 SDG#: PEH89-06

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(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074570
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:40 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29011 SDG#: PEH89-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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
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	28.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0087 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.133	0.00033	0.0050	1

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

Sample Description: WS-001(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074570
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29011 SDG#: PEH89-06

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	5.02	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0179	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0185	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0145	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	0.0274	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/03/2013 23:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 23:24	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 19:09	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 17:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-001(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074570
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29011 SDG#: PEH89-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-001(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074571
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:50 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29012 SDG#: PEH89-07

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

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

Sample Description: WS-001(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074571
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:50 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29012 SDG#: PEH89-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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		
06256	Total Hardness as CaCO ₃	471-34-1	29.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0074 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.146	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074571
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:50 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29012 SDG#: PEH89-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.22	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0198	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0210	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.91	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0154	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.0080 J	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0298	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/03/2013 23:46	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 23:46	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 19:36	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-001(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074571
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:50 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29012 SDG#: PEH89-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-004(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074572
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:00 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29041 SDG#: PEH89-08

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	5.4	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-004(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074572
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:00 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29041 SDG#: PEH89-08

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	0.4 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	0.014 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.017 J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.012 J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.034 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.012 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.012 J	0.010	0.052	1
08357	Chrysene	218-01-9	0.052	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	0.030 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.012 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.077	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.053	0.010	0.052	1
08357	Naphthalene	91-20-3	0.038 J	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.049 J	0.010	0.052	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	38.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0158 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.235	0.00033	0.0050	1

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

Sample Description: WS-004(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074572
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29041 SDG#: PEH89-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.36	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0366	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0742	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.43	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0285	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	0.0535	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 00:09	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 00:09	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 20:03	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-004(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074572
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29041 SDG#: PEH89-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-004(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074573
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:10 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29042 SDG#: PEH89-09

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

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

Sample Description: WS-004(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074573
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:10 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29042 SDG#: PEH89-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
The 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	35.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0127 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.216	0.00033	0.0050	1

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

Sample Description: WS-004(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074573
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29042 SDG#: PEH89-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.61	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0346	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0481	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.22	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0258	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	0.0512	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 00:32	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 00:32	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 20:30	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-004(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074573
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29042 SDG#: PEH89-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-007(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074574
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:30 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29071 SDG#: PEH89-10

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

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

Sample Description: WS-007(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074574
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:30 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29071 SDG#: PEH89-10

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	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.012 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	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	0.018 J	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	33.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0097 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.192	0.00033	0.0050	1

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

Sample Description: WS-007(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074574
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:30 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29071 SDG#: PEH89-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.52	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0268	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0270	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.66	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0210	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	0.0414	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 00:54	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 00:54	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 20:57	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-007(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074574
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:30 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29071 SDG#: PEH89-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-007(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074575
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:40 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29072 SDG#: PEH89-11

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

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

Sample Description: WS-007(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074575
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:40 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29072 SDG#: PEH89-11

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	2.4	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	0.012 J	0.010	0.052	1
08357	Anthracene	120-12-7	0.027 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.058	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.039 J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.18	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.035 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.053	0.010	0.052	1
08357	Chrysene	218-01-9	0.14	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	0.30	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	0.044 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.073	0.031	0.052	1
08357	Pyrene	129-00-0	0.26	0.010	0.052	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	49.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0192 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.382	0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074575
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29072 SDG#: PEH89-11

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.89	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0532	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0727	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.75	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0449	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.0099 J	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0801	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 01:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 01:17	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 21:24	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1

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

Sample Description: WS-007(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074575
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 13:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29072 SDG#: PEH89-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-006(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074576
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 14:00 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29061 SDG#: PEH89-12

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(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074576
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 14:00 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29061 SDG#: PEH89-12

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	0.050	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	mg/l	
06256	Total Hardness as CaCO3	471-34-1	19.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0373	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.27	0.0640	0.200	1

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

Sample Description: WS-006(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074576
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 14:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29061 SDG#: PEH89-12

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	0.0020 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.19	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0023 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0036 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131552AA	06/04/2013 22:27	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131552AA	06/04/2013 22:27	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 21:52	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-006(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074577
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 14:10 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29062 SDG#: PEH89-13

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

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

Sample Description: WS-006(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074577
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 14:10 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29062 SDG#: PEH89-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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	0.013 J	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	20.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0550	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.29	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074577
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 14:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29062 SDG#: PEH89-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0042 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0058 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.42	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	0.0079	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 02:01	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 02:01	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 22:19	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:23	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 08:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-011(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074578
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:05 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29111 SDG#: PEH89-14

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

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

Sample Description: WS-011(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074578
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:05 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29111 SDG#: PEH89-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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	0.011 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0194	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.92	0.0640	0.200	1

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

Sample Description: WS-011(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074578
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:05 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29111 SDG#: PEH89-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.92	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0012	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 02:23	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 02:23	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAG026	06/05/2013 22:46	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAG026	05/30/2013 16:40	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:35	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 09:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-011(5.5-6.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074579
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:15 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29112 SDG#: PEH89-15

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

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

Sample Description: WS-011(5.5-6.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074579
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:15 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29112 SDG#: PEH89-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	17.8	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	0.0196	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-011(5.5-6.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074579
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:15 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29112 SDG#: PEH89-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.93	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	1.93	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00085	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 02:45	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 02:45	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAWJ026	06/06/2013 05:34	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAWJ026	05/31/2013 08:00	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:38	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 09:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-011(5.5-6.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074579
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:15 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29112 SDG#: PEH89-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-014(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074580
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29141 SDG#: PEH89-16

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

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

Sample Description: WS-014(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074580
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:40 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29141 SDG#: PEH89-16

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

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

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	17.6	0.064	0.20

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

Sample Description: WS-014(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074580
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29141 SDG#: PEH89-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0175	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.90	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	1.91	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	0.00059	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 03:07	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 03:07	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAWJ026	06/06/2013 06:01	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAWJ026	05/31/2013 08:00	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 09:06	Damary Valentin	1

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

Sample Description: WS-014(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074580
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29141 SDG#: PEH89-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

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

Sample Description: WS-014(4.5-5.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074581
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:50 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29142 SDG#: PEH89-17

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

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

Sample Description: WS-014(4.5-5.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074581
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:50 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29142 SDG#: PEH89-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0173	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-014(4.5-5.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074581
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:50 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29142 SDG#: PEH89-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.88	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	1.90	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00021	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 03:29	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 03:29	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAWJ026	06/06/2013 06:29	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAWJ026	05/31/2013 08:00	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 09:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-014(4.5-5.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074581
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 09:50 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29142 SDG#: PEH89-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-012(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074582
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:10 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29121 SDG#: PEH89-18

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

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

Sample Description: WS-012(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074582
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:10 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29121 SDG#: PEH89-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.4	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	0.0187	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-012(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074582
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29121 SDG#: PEH89-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.86	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.90	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
	mg/l		mg/l	mg/l		
00259	Mercury	7439-97-6	0.00067	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 03:51	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 03:51	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAWJ026	06/06/2013 06:56	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAWJ026	05/31/2013 08:00	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 09:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074582
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29121 SDG#: PEH89-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13151807901A	05/31/2013 07:22	Yolunder Y Bunch	1

Sample Description: WS-012(5.0-5.5)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074583
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29122 SDG#: PEH89-19

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

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

Sample Description: WS-012(5.0-5.5)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074583
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:20 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29122 SDG#: PEH89-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	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	0.0186	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-012(5.0-5.5)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074583
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29122 SDG#: PEH89-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.77	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.85	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
	mg/l		mg/l	mg/l		
00259	Mercury	7439-97-6	0.00026	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 04:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 04:13	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WJ026	06/06/2013 07:23	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WJ026	05/31/2013 08:00	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:54	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 09:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074583
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 10:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29122 SDG#: PEH89-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13154807901A	06/03/2013 08:23	Yolunder Y Bunch	1

Sample Description: WS-010(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074584
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:00 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29010 SDG#: PEH89-20

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

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

Sample Description: WS-010(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074584
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:00 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29010 SDG#: PEH89-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0249	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-010(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074584
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29010 SDG#: PEH89-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.91	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	1.93	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00050	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 04:35	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 04:35	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WAWJ026	06/06/2013 07:50	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WAWJ026	05/31/2013 08:00	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131531848002	06/02/2013 17:19	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848002	05/31/2013 18:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713003	05/31/2013 09:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848002	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713003	05/30/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074584
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29010 SDG#: PEH89-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13154807901A	06/03/2013 08:23	Yolunder Y Bunch	1

Sample Description: WS-018(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074585
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:55 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29018 SDG#: PEH89-21

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

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

Sample Description: WS-018(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074585
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:55 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29018 SDG#: PEH89-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0199	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-018(Surface)052913 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074585
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 11:55 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 05/30/2013 09:45

PO Box 4416

Reported: 06/06/2013 12:16

Houston TX 77210-4416

29018 SDG#: PEH89-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.92	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	1.86	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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131542AA	06/04/2013 04:57	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/04/2013 04:57	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13150WJ026	06/06/2013 08:17	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13150WJ026	05/31/2013 08:00	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131516256001	05/31/2013 21:23	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848001	05/31/2013 18:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713002	05/31/2013 08:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848001	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713002	05/30/2013 17:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13154807901A	06/03/2013 08:23	Yolunder Y Bunch	1

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

Sample Description: WS-FB-34-052913 Grab Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074586
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013 12:05 by HV

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29F34 SDG#: PEH89-22FB

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131516256001	05/31/2013 21:23	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07046	Barium	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
01750	Calcium	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07051	Chromium	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07055	Lead	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07061	Nickel	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07036	Selenium	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07066	Silver	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131501848001	05/31/2013 18:45	John P Hook	1
00259	Mercury	SW-846 7470A	1	131505713002	05/31/2013 08:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131501848001	05/31/2013 06:42	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131505713002	05/30/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-TB-57-052913 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074587
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29T57 SDG#: PEH89-23TB*

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-TB-57-052913 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7074587
LLI Group # 1393393
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2013

ExxonMobil

Submitted: 05/30/2013 09:45

Mobil Pipeline Company

Reported: 06/06/2013 12:16

PO Box 4416

Houston TX 77210-4416

29T57 SDG#: PEH89-23TB*

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	C131542AA	06/03/2013 21:09	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131542AA	06/03/2013 21:09	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 06/06/13 at 12:16 PM

Group Number: 1393393

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: C131541AA	Sample number(s): 7074562-7074563								
Acetone	N.D.	3.0	5.0	ug/l	110		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	92		61-130		
Benzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	108		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	105		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	120		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	94		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	101		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	113		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	91		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	105		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	79		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	114		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	114		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	104		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	67		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	104		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	112		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	116		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	107		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	105		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	89		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	114		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	100		61-125		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	101		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	94		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	94		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	107		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Styrene	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	109		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	97		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	106		65-131		
Toluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	93		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	91		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	107		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	106		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	96		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	100		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	85		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: C131542AA

Sample number(s): 7074564-7074568,7074570-7074575,7074577-7074585,7074587

Acetone	N.D.	3.0	5.0	ug/l	101		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	89		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	109		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	102		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	114		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	96		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	94		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	110		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	94		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	104		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	79		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	104		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	111		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	105		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	64		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	105		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	120		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	103		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	102		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	93		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	110		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	100		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	101		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	96		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	96		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	109		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Styrene	N.D.	0.1	0.5	ug/l	108		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	109		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	99		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	97		65-131		
Toluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	96		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	94		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	105		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	97		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	102		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	87		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	106		80-120		

Batch number: C131552AA

Sample number(s): 7074576

Acetone	N.D.	3.0	5.0	ug/l	110		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	88		61-130		
Benzene	N.D.	0.1	0.5	ug/l	102		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	105		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	102		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	111		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	96		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	101		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	108		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	92		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	103		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	84		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	101		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	108		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	108		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	102		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	75		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	121		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	101		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	101		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	91		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	109		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	96		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	100		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	94		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	95		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	108		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Styrene	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	97		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	103		65-131		
Toluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	89		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	87		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	97		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	99		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	90		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	104		80-120		

Batch number: 13150WAG026

Sample number(s): 7074562-7074568, 7074570-7074578

Acenaphthene	N.D.	0.010	0.050	ug/l	104		65-124
Acenaphthylene	N.D.	0.010	0.050	ug/l	110		72-113
Anthracene	N.D.	0.010	0.050	ug/l	107		70-117
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	108		75-115
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	99		72-120
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	106		74-130
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	102		63-121

*- 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: 1393393

Reported: 06/06/13 at 12:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	117		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	108		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	98		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	107		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	105		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	99		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	109		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	105		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	103		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	110		71-116		

Batch number: 13150WAJ026

Sample number(s): 7074579-7074585

Acenaphthene	N.D.	0.010	0.050	ug/l	98	94	65-124	4	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	106	101	72-113	4	30
Anthracene	N.D.	0.010	0.050	ug/l	105	101	70-117	4	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	110	105	75-115	5	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	96	92	72-120	4	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	106	102	74-130	4	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	105	92	63-121	13	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	107	101	74-118	6	30
Chrysene	N.D.	0.010	0.050	ug/l	102	94	75-112	9	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	102	82	66-122	22	30
Fluoranthene	N.D.	0.010	0.050	ug/l	104	100	73-116	4	30
Fluorene	N.D.	0.010	0.050	ug/l	102	98	74-115	4	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	109	94	66-122	14	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107	103	72-114	4	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106	103	74-119	4	30
Naphthalene	N.D.	0.030	0.050	ug/l	102	98	67-118	5	30
Phenanthrene	N.D.	0.030	0.050	ug/l	99	95	72-109	4	30
Pyrene	N.D.	0.010	0.050	ug/l	107	102	71-116	4	30

Batch number: 131501848001

Sample number(s): 7074585-7074586

Arsenic	N.D.	0.0068	0.0200	mg/l	96		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	99		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	98		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	102		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	95		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	103		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	100		90-110		

Batch number: 131501848002

Sample number(s): 7074562-7074584

Arsenic	N.D.	0.0068	0.0200	mg/l	97		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	100		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	98		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	99		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	102		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	97		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	95		80-120		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Vanadium	N.D.	0.0013	0.0050	mg/l	101		90-110		
Batch number: 131505713002	Sample number(s): 7074585-7074586								
Mercury	N.D.	0.00007	0.00020	mg/l	91		80-120		
		0							
Batch number: 131505713003	Sample number(s): 7074562-7074584								
Mercury	N.D.	0.00007	0.00020	mg/l	90		80-120		
		0							
Batch number: 13151807901A	Sample number(s): 7074562-7074582								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	95	95	78-114	0	16
Batch number: 13154807901A	Sample number(s): 7074583-7074585								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	96	90	78-114	6	16

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131541AA	Sample number(s): 7074562-7074563 UNSPK: P077915								
Acetone	96	99	57-163	3	30				
Allyl Chloride	84	91	67-139	8	30				
Benzene	93	96	87-126	4	30				
Bromobenzene	94	99	80-123	6	30				
Bromochloromethane	97	100	82-125	3	30				
Bromodichloromethane	94	97	82-133	3	30				
Bromoform	111	114	60-138	3	30				
Bromomethane	93	99	41-145	7	30				
2-Butanone	84	86	63-146	1	30				
n-Butylbenzene	93	98	83-131	5	30				
sec-Butylbenzene	94	100	84-128	6	30				
tert-Butylbenzene	97	103	84-135	6	30				
Carbon Tetrachloride	101	105	81-148	3	30				
Chlorobenzene	99	104	78-133	5	30				
Chloroethane	91	98	70-139	8	30				
Chloroform	94	98	86-136	4	30				
Chloromethane	78	85	55-152	9	30				
2-Chlorotoluene	94	101	81-120	7	30				
4-Chlorotoluene	97	103	82-119	6	30				
1,2-Dibromo-3-chloropropane	93	97	43-143	3	30				
Dibromochloromethane	104	107	79-125	3	30				
1,2-Dibromoethane	94	96	84-127	3	30				
Dibromomethane	94	96	83-126	2	30				
1,2-Dichlorobenzene	96	102	83-117	6	30				
1,3-Dichlorobenzene	96	103	81-118	6	30				
1,4-Dichlorobenzene	96	102	79-120	6	30				
Dichlorodifluoromethane	65	66	28-136	2	30				
1,1-Dichloroethane	92	96	88-136	5	30				
1,2-Dichloroethane	91	96	82-135	4	30				

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 06/06/13 at 12:16 PM

Group Number: 1393393

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloroethene	102	107	83-150	4	30				
cis-1,2-Dichloroethene	94	97	82-129	3	30				
trans-1,2-Dichloroethene	97	100	88-127	3	30				
Dichlorofluoromethane	115	123	59-176	7	30				
1,2-Dichloropropane	94	100	91-126	6	30				
1,3-Dichloropropane	93	96	80-127	3	30				
2,2-Dichloropropane	95	99	80-134	4	30				
1,1-Dichloropropene	95	99	86-139	3	30				
cis-1,3-Dichloropropene	90	95	74-132	6	30				
trans-1,3-Dichloropropene	89	93	71-128	4	30				
Ethyl ether	86	86	67-127	0	30				
Ethylbenzene	95	99	80-140	4	30				
Freon 113	103	103	87-158	0	30				
Hexachlorobutadiene	91	96	65-128	6	30				
Isopropylbenzene	96	101	81-133	5	30				
p-Isopropyltoluene	95	101	84-124	6	30				
Methyl Tertiary Butyl Ether	84	88	82-132	4	30				
4-Methyl-2-Pentanone	92	96	69-149	4	30				
Methylene Chloride	95	97	84-122	3	30				
n-Propylbenzene	92	98	79-131	6	30				
Styrene	98	103	63-151	5	30				
1,1,1,2-Tetrachloroethane	98	105	87-126	7	30				
1,1,2,2-Tetrachloroethane	93	98	75-131	5	30				
Tetrachloroethene	100	103	75-129	3	30				
Tetrahydrofuran	85	81	56-154	5	30				
Toluene	95	100	83-127	5	30				
1,2,3-Trichlorobenzene	87	92	73-125	5	30				
1,2,4-Trichlorobenzene	87	92	77-120	6	30				
1,1,1-Trichloroethane	96	101	85-140	5	30				
1,1,2-Trichloroethane	98	101	85-129	3	30				
Trichloroethene	96	100	85-131	4	30				
Trichlorofluoromethane	95	99	67-161	4	30				
1,2,3-Trichloropropane	96	100	76-120	4	30				
1,2,4-Trimethylbenzene	94	99	87-126	6	30				
1,3,5-Trimethylbenzene	93	100	89-129	7	30				
Vinyl Chloride	86	92	65-151	6	30				
Xylene (Total)	97	101	81-137	5	30				

Batch number: C131542AA

Sample number(s): 7074564-7074568, 7074570-7074575, 7074577-7074585, 7074587 UNSPK: 7074566

Acetone	108	94	57-163	12	30
Allyl Chloride	97	97	67-139	1	30
Benzene	110	110	87-126	0	30
Bromobenzene	108	105	80-123	3	30
Bromochloromethane	112	112	82-125	0	30
Bromodichloromethane	109	106	82-133	3	30
Bromoform	117	113	60-138	3	30
Bromomethane	97	99	41-145	2	30
2-Butanone	92	95	63-146	3	30
n-Butylbenzene	107	105	83-131	2	30
sec-Butylbenzene	109	107	84-128	2	30
tert-Butylbenzene	112	110	84-135	2	30

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 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>
Carbon Tetrachloride	122	121	81-148	1	30				
Chlorobenzene	117	114	78-133	3	30				
Chloroethane	96	97	70-139	1	30				
Chloroform	112	110	86-136	2	30				
Chloromethane	82	83	55-152	1	30				
2-Chlorotoluene	109	107	81-120	2	30				
4-Chlorotoluene	112	109	82-119	3	30				
1,2-Dibromo-3-chloropropane	97	104	43-143	6	30				
Dibromochloromethane	117	113	79-125	3	30				
1,2-Dibromoethane	108	105	84-127	3	30				
Dibromomethane	110	107	83-126	2	30				
1,2-Dichlorobenzene	107	106	83-117	1	30				
1,3-Dichlorobenzene	111	108	81-118	3	30				
1,4-Dichlorobenzene	109	106	79-120	2	30				
Dichlorodifluoromethane	65	66	28-136	2	30				
1,1-Dichloroethane	111	110	88-136	1	30				
1,2-Dichloroethane	108	107	82-135	1	30				
1,1-Dichloroethene	124	123	83-150	1	30				
cis-1,2-Dichloroethene	112	111	82-129	1	30				
trans-1,2-Dichloroethene	117	115	88-127	1	30				
Dichlorofluoromethane	124	125	59-176	1	30				
1,2-Dichloropropane	111	109	91-126	2	30				
1,3-Dichloropropane	107	105	80-127	2	30				
2,2-Dichloropropane	114	114	80-134	0	30				
1,1-Dichloropropene	114	113	86-139	2	30				
cis-1,3-Dichloropropene	103	103	74-132	0	30				
trans-1,3-Dichloropropene	100	97	71-128	3	30				
Ethyl ether	90	91	67-127	1	30				
Ethylbenzene	114	111	80-140	3	30				
Freon 113	124	123	87-158	2	30				
Hexachlorobutadiene	104	104	65-128	0	30				
Isopropylbenzene	113	111	81-133	2	30				
p-Isopropyltoluene	110	109	84-124	1	30				
Methyl Tertiary Butyl Ether	98	99	82-132	2	30				
4-Methyl-2-Pentanone	98	97	69-149	0	30				
Methylene Chloride	114	113	84-122	1	30				
n-Propylbenzene	108	105	79-131	3	30				
Styrene	115	113	63-151	2	30				
1,1,1,2-Tetrachloroethane	114	112	87-126	2	30				
1,1,2,2-Tetrachloroethane	101	99	75-131	2	30				
Tetrachloroethene	119	117	75-129	2	30				
Tetrahydrofuran	89	96	56-154	7	30				
Toluene	115	109	83-127	5	30				
1,2,3-Trichlorobenzene	97	95	73-125	2	30				
1,2,4-Trichlorobenzene	96	97	77-120	1	30				
1,1,1-Trichloroethane	117	115	85-140	2	30				
1,1,2-Trichloroethane	113	108	85-129	5	30				
Trichloroethene	115	113	85-131	2	30				
Trichlorofluoromethane	102	102	67-161	0	30				
1,2,3-Trichloropropane	105	101	76-120	3	30				
1,2,4-Trimethylbenzene	109	105	87-126	3	30				
1,3,5-Trimethylbenzene	109	107	89-129	2	30				

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 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>
Vinyl Chloride	91	92	65-151	1	30				
Xylene (Total)	116	114	81-137	2	30				
Batch number: C131552AA Sample number(s): 7074576 UNSPK: P078749									
Acetone	107	106	57-163	1	30				
Allyl Chloride	93	94	67-139	1	30				
Benzene	110	108	87-126	1	30				
Bromobenzene	106	105	80-123	1	30				
Bromochloromethane	108	106	82-125	2	30				
Bromodichloromethane	106	104	82-133	1	30				
Bromoform	115	113	60-138	2	30				
Bromomethane	103	104	41-145	1	30				
2-Butanone	89	92	63-146	3	30				
n-Butylbenzene	107	105	83-131	2	30				
sec-Butylbenzene	109	108	84-128	1	30				
tert-Butylbenzene	116	115	84-135	1	30				
Carbon Tetrachloride	119	117	81-148	2	30				
Chlorobenzene	113	113	78-133	1	30				
Chloroethane	101	101	70-139	1	30				
Chloroform	109	107	86-136	2	30				
Chloromethane	91	92	55-152	1	30				
2-Chlorotoluene	107	107	81-120	1	30				
4-Chlorotoluene	109	108	82-119	1	30				
1,2-Dibromo-3-chloropropane	97	95	43-143	2	30				
Dibromochloromethane	113	112	79-125	1	30				
1,2-Dibromoethane	104	105	84-127	1	30				
Dibromomethane	107	105	83-126	2	30				
1,2-Dichlorobenzene	107	105	83-117	1	30				
1,3-Dichlorobenzene	110	107	81-118	3	30				
1,4-Dichlorobenzene	107	105	79-120	2	30				
Dichlorodifluoromethane	83	82	28-136	1	30				
1,1-Dichloroethane	108	107	88-136	1	30				
1,2-Dichloroethane	106	105	82-135	2	30				
1,1-Dichloroethene	120	118	83-150	1	30				
cis-1,2-Dichloroethene	111	109	82-129	2	30				
trans-1,2-Dichloroethene	115	112	88-127	2	30				
Dichlorofluoromethane	131	131	59-176	0	30				
1,2-Dichloropropane	110	108	91-126	2	30				
1,3-Dichloropropane	104	104	80-127	0	30				
2,2-Dichloropropane	114	112	80-134	2	30				
1,1-Dichloropropene	112	110	86-139	1	30				
cis-1,3-Dichloropropene	102	103	74-132	0	30				
trans-1,3-Dichloropropene	98	99	71-128	2	30				
Ethyl ether	90	87	67-127	3	30				
Ethylbenzene	110	109	80-140	1	30				
Freon 113	122	118	87-158	3	30				
Hexachlorobutadiene	106	105	65-128	1	30				
Isopropylbenzene	111	111	81-133	0	30				
p-Isopropyltoluene	109	108	84-124	1	30				
Methyl Tertiary Butyl Ether	96	96	82-132	0	30				
4-Methyl-2-Pentanone	97	97	69-149	0	30				
Methylene Chloride	112	109	84-122	2	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: 06/06/13 at 12:16 PM

Group Number: 1393393

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
n-Propylbenzene	106	105	79-131	1	30				
Styrene	112	111	63-151	1	30				
1,1,1,2-Tetrachloroethane	112	111	87-126	0	30				
1,1,2,2-Tetrachloroethane	100	98	75-131	1	30				
Tetrachloroethene	117	115	75-129	1	30				
Tetrahydrofuran	89	91	56-154	2	30				
Toluene	111	110	83-127	1	30				
1,2,3-Trichlorobenzene	94	94	73-125	0	30				
1,2,4-Trichlorobenzene	94	95	77-120	1	30				
1,1,1-Trichloroethane	114	112	85-140	1	30				
1,1,2-Trichloroethane	109	108	85-129	1	30				
Trichloroethene	113	111	85-131	2	30				
Trichlorofluoromethane	107	106	67-161	1	30				
1,2,3-Trichloropropane	102	100	76-120	2	30				
1,2,4-Trimethylbenzene	107	106	87-126	1	30				
1,3,5-Trimethylbenzene	107	107	89-129	1	30				
Vinyl Chloride	99	99	65-151	0	30				
Xylene (Total)	112	111	81-137	1	30				

Batch number: 13150WAG026	Sample number(s): 7074562-7074568,7074570-7074578 UNSPK: 7074566								
Acenaphthene	82	98	59-127	18	30				
Acenaphthylene	93	107	33-146	15	30				
Anthracene	76	89	69-119	16	30				
Benzo(a)anthracene	79	117	67-124	38*	30				
Benzo(a)pyrene	51*	88	64-123	53*	30				
Benzo(b)fluoranthene	64	101	61-133	45*	30				
Benzo(g,h,i)perylene	50	99	36-138	65*	30				
Benzo(k)fluoranthene	63	103	59-128	49*	30				
Chrysene	55*	93	62-118	50*	30				
Dibenz(a,h)anthracene	47	90	32-141	63*	30				
Fluoranthene	81	78	65-123	4	30				
Fluorene	87	103	69-124	17	30				
Indeno(1,2,3-cd)pyrene	51	101	29-143	66*	30				
1-Methylnaphthalene	93	107	67-117	14	30				
2-Methylnaphthalene	93	106	71-126	14	30				
Naphthalene	94	110	58-131	16	30				
Phenanthrene	86	104	67-117	19	30				
Pyrene	76	101	59-125	27	30				

Batch number: 131501848001	Sample number(s): 7074585-7074586 UNSPK: P074548 BKG: P074548								
Arsenic	99	99	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	101	101	78-118	0	20	0.0312	0.0317	2	20
Cadmium	100	99	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	99	99	81-118	0	20	3.90	3.97	2	20
Chromium	102	101	81-120	1	20	0.0021 J	0.0022 J	5 (1)	20
Lead	104	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	98	98	75-125	0	20	1.94	1.98	2	20
Nickel	103	103	86-115	0	20	0.0024 J	0.0024 J	0 (1)	20
Selenium	97	100	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	102	105	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	101	101	90-111	0	20	0.0029 J	0.0029 J	0 (1)	20

*- Outside of specification

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(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 SummaryClient Name: ExxonMobil
Reported: 06/06/13 at 12:16 PM

Group Number: 1393393

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>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>
Batch number: 131501848002	Sample number(s): 7074562-7074584 UNSPK: 7074566 BKG: 7074566								
Arsenic	100	101	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	102	103	78-118	0	20	0.0607	0.0616	1	20
Cadmium	100	100	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	110 (2)	113 (2)	81-118	0	20	17.5	17.7	1	20
Chromium	100	101	81-120	1	20	0.0020 J	0.0021 J	5 (1)	20
Lead	102	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	111 (2)	109 (2)	75-125	0	20	9.07	9.14	1	20
Nickel	102	103	86-115	0	20	0.0041 J	0.0039 J	7 (1)	20
Selenium	105	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	96	99	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	104	105	90-111	0	20	0.0025 J	0.0029 J	13 (1)	20
Batch number: 131505713002	Sample number(s): 7074585-7074586 UNSPK: P074553 BKG: P074553								
Mercury	90	89	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 131505713003	Sample number(s): 7074562-7074584 UNSPK: 7074566 BKG: 7074566								
Mercury	89	87	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 13151807901A	Sample number(s): 7074562-7074582 UNSPK: 7074566 BKG: 7074566								
HEM (oil & grease)	56*	51*	78-114	7	29	10.1	1.4 J	150* (1)	18
Batch number: 13154807901A	Sample number(s): 7074583-7074585 UNSPK: P073110								
HEM (oil & grease)	61*		78-114						

Surrogate Quality ControlSurrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.Analysis Name: NHDES VOCs 25ml purge
Batch number: C131541AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7074562	107	104	99	94
7074563	106	103	98	95
Blank	106	103	100	95
LCS	103	102	102	99
MS	103	102	102	99
MSD	103	102	102	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: NHDES VOCs 25ml purge
Batch number: C131542AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7074564	106	105	99	95
7074565	107	107	99	95

*- Outside of specification

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Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 PM

Surrogate Quality Control

7074566	106	105	99	96
7074567	104	101	103	101
7074568	103	104	102	100
7074570	106	104	99	95
7074571	105	103	98	94
7074572	105	104	97	93
7074573	105	104	99	95
7074574	106	104	98	94
7074575	106	104	99	94
7074577	108	103	98	94
7074578	108	105	99	94
7074579	108	103	99	94
7074580	108	106	99	95
7074581	108	105	99	94
7074582	107	104	98	94
7074583	108	105	99	95
7074584	107	103	99	94
7074585	107	104	99	94
7074587	106	106	100	95
Blank	106	106	99	94
LCS	104	102	103	100
MS	104	101	103	101
MSD	103	104	102	100

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

Analysis Name: NHDES VOCs 25ml purge

Batch number: C131552AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7074576	105	105	99	95
Blank	105	103	100	95
LCS	103	102	102	99
MS	102	103	101	100
MSD	101	102	102	98

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

Analysis Name: PAHs in waters by SIM

Batch number: 13150WAG026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7074562	94	75	102
7074563	44*	30*	68
7074564	95	111	100
7074565	96	83	103
7074566	82	99	99
7074567	77	56*	90
7074568	79	103	103
7074570	44*	12*	71
7074571	40*	23*	56*
7074572	66	56*	90
7074573	22*	15*	40*
7074574	27*	17*	44*
7074575	15*	11*	27*

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Quality Control Summary

Client Name: ExxonMobil

Group Number: 1393393

Reported: 06/06/13 at 12:16 PM

Surrogate Quality Control

7074576	91	75	96
7074577	93	81	97
7074578	96	71	97
Blank	95	101	95
LCS	101	110	108
MS	77	56*	90
MSD	79	103	103

Limits: 64-120 62-141 58-134

Analysis Name: PAHs in waters by SIM

Batch number: 13150WAJ026

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

7074579	101	82	103
7074580	57*	15*	63
7074581	99	80	99
7074582	96	80	99
7074583	84	75	85
7074584	90	73	90
7074585	96	76	96
Blank	100	101	98
LCS	98	106	104
LCSD	97	101	101

Limits: 64-120 62-141 58-134

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ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1393393 Sample # 7074562-87
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

10f2

1 Client Information				4 Matrix		5 Analyses Requested										SCR#:																																																																	
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air ☐ Oil ☐ Water		Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																	
Site Address <u>Mayflower, AR</u>						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>H</td><td>N</td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												H	N	H																																																													
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ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																																																																															
Consultant/Office <u>Arcadis-US</u>																																																																																	
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 302 6799</u>		6 Remarks <u>Data Analysis questions:</u> <u>Lyndi Mott</u> <u>ARCAOIS</u>																																																																													
Sampler <u>H. Van Aller / T. Milburn / J. Waldron</u>																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Collected</th> <th rowspan="2">Grab</th> <th rowspan="2">Composite</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> <tr> <td>WS-003 (Surface) 052913</td> <td>5/29/13 0800</td> <td>X</td> <td></td> </tr> <tr> <td>WS-019 (Surface) 052913</td> <td>0910^{HV}</td> <td>X</td> <td></td> </tr> <tr> <td>WS-002-BKG (Surface) 052913</td> <td>1020</td> <td>X</td> <td></td> </tr> <tr> <td>WS-002 (Surface) 052913</td> <td>0950</td> <td>X</td> <td></td> </tr> <tr> <td>WS-008 (Surface) 052913</td> <td>1120</td> <td>X</td> <td></td> </tr> <tr> <td>WS-008 (Surface) 052913 MS/MO</td> <td>1120</td> <td>X</td> <td></td> </tr> <tr> <td>WS-001 (Surface) 052913</td> <td>1240</td> <td>X</td> <td></td> </tr> <tr> <td>WS-001 (0.5-1.0) 052913</td> <td>1250</td> <td>X</td> <td></td> </tr> <tr> <td>WS-004 (Surface) 052913</td> <td>1300</td> <td>X</td> <td></td> </tr> <tr> <td>WS-004 (0.5-1.0) 052913</td> <td>1310</td> <td>X</td> <td></td> </tr> <tr> <td>WS-007 (Surface) 052913</td> <td>1330</td> <td>X</td> <td></td> </tr> <tr> <td>WS-007 (0.5-1.0) 052913</td> <td>1340</td> <td>X</td> <td></td> </tr> </table>														Collected		Grab	Composite	Date	Time	WS-003 (Surface) 052913	5/29/13 0800	X		WS-019 (Surface) 052913	0910 ^{HV}	X		WS-002-BKG (Surface) 052913	1020	X		WS-002 (Surface) 052913	0950	X		WS-008 (Surface) 052913	1120	X		WS-008 (Surface) 052913 MS/MO	1120	X		WS-001 (Surface) 052913	1240	X		WS-001 (0.5-1.0) 052913	1250	X		WS-004 (Surface) 052913	1300	X		WS-004 (0.5-1.0) 052913	1310	X		WS-007 (Surface) 052913	1330	X		WS-007 (0.5-1.0) 052913	1340	X															
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7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H. Van Aller</u> Date <u>5/29/13</u> Time <u>1600</u>		Received by <u>[Signature]</u> Date <u>5/30/13</u> Time <u>945</u>																																																																											
Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour																																																																																	
Relinquished by Date Time																																																																																	
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8 Data Package (circle if required)				Relinquished by Commercial Carrier UPS FedEx <u>X</u> Other		Received by <u>[Signature]</u> Date <u>5/30/13</u> Time <u>945</u>																																																																											
Type I - Full Type VI (Raw Data) NJ Reduced Other																																																																																	
EDD (circle if required) Locus EIM (default) Other																																																																																	
Temperature Upon Receipt <u>0.8-3.9 °C</u>																																																																																	
						Custody Seals Intact? <u>Yes</u> No																																																																											

For Lancaster Laboratories use only
Acct. # 14739 Group # 1393393 Sample # 7074562-87
Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information										4 Matrix			5 Analyses Requested										SCR#:										
Facility #/SID Mayflower Pipeline Incident										☐ Sediment ☐ Ground ☒ Surface			Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other										
Site Address Mayflower, AR																																	
ExxonMobil PM Scott Bushroe					Cost Center/AFE					Total # of Containers			H VOC 8260 B N PAH 8270 SIM S ACRA Metals Ni, V, Cr, Pb, Mn O HEM (oil & grease)										6 Remarks Data Analysis questions: Lyndi Mott ARCADIS										
Consultant/Office Arcadis US					Consultant Phone # 919 302 6799																												
Consultant PM Steve Barrick					Sampler H. Van Aller / T. Milburn / J. Waldron					3																							
2 Sample Identification										Collected			Grab			Composite																	
Date										Time			Soil			Water																	
WS-006 (Surface) 052913										5/29/13			1400			X			X			8										X	
WS-006 (0.5-1.0) 052913										1410			X			X			8										X				
WS-011 (1.5-2.0) 052913										0905			X			X			8										X				
WS-011 (5.5-6.0) 052913										0915			X			X			8										X				
WS-014 (1.5-2.0) 052913										0940			X			X			8										X				
WS-014 (4.5-5.0) 052913										0950			X			X			8										X				
WS-012 (1.5-2.0) 052913										1010			X			X			8										X				
WS-012 (5.0-5.5) 052913										1020			X			X			8										X				
WS-010 (1.5-2.0) 052913										1100			X			X			8										X				
WS-018 (Surface) 052913										1155			X			X			8										X				
WS-FB-34-052913										1205			X			X			1										X				
WS-TB-57-052913										—			X			X			2										X				
7 Turnaround Time Requested (TAT) (please circle)										Relinquished by H. Van Aller										Date 5/29/13		Time 1600		Received by		Date		Time					
Standard 5 day 4 day										Relinquished by										Date		Time		Received by		Date		Time					
72 hour 48 hour 24 hour										Relinquished by										Date		Time		Received by		Date		Time					
8 Data Package (circle if required)										Relinquished by Commercial Carrier										Date		Time		Received by		Date		Time					
Type I - Full										UPS FedEx X Other										Temperature Upon Receipt 0.8-3.9°C		Custody Seals Intact?		Yes		No							
Type VI (Raw Data)																																	
NJ Reduced																																	
Other																																	
EDD (circle if required)										Locus EIM (default)																							
Other																																	

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

Issued by Dept. 40 Management
7053.01

Environmental Sample Administration
Receipt Documentation Log

1393393

Client/Project: Exxon mobil

Shipping Container Sealed: YES NO

Date of Receipt: 5.30.13

Custody Seal Present *: YES NO

Time of Receipt: 945

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

Source Code: 50-1

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2737	3.9	TB	WI	Y	B	
2	↓	1.6	↓	↓	↓	↓	
3	↓	0.8	↓	↓	↓	↓	
4	↓	0.9	↓	↓	↓	↓	
5	↓	1.7	↓	↓	↓	↓	
6	↓	1.3	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Benny [Signature] 2299 Date/Time: 5.30.13 1030

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation Log

1393393

Client/Project:

Exxon mobil

Shipping Container Sealed:

YES

NO

Date of Receipt:

5.30.13

Custody Seal Present * :

YES

NO

Time of Receipt:

945

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

Source Code:

50-1

Package:

Chilled

Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
17	2737	3.3	TB	WI	Y	B	
18	↓	2.0	↓	↓	↓	↓	
19	↓	2.1	↓	↓	↓	↓	
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Benny [Signature]

2299

Date/Time:

5.30.13 1030

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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