

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

June 17, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/06/2013

Group Number: 1395061

SDG: PEI05

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(Surface)060513 Grab Surface Water	7083288
WS-002(Surface)060513 Grab Surface Water	7083289
WS-BKG-002(Surface)060513 Grab Surface Water	7083290
WS-005(Surface)060513 Grab Surface Water	7083291
WS-008(Surface)060513 Grab Surface Water	7083292
WS-001(Surface)060513 Grab Surface Water	7083293
WS-001(0.5-1.0)060513 Grab Surface Water	7083294
WS-004(Surface)060513 Grab Surface Water	7083295
WS-004(0.5-1.0)060513 Grab Surface Water	7083296
WS-007(Surface)060513 Grab Surface Water	7083297
WS-007(0.5-1.0)060513 Grab Surface Water	7083298
WS-006(Surface)060513 Grab Surface Water	7083299
WS-006(0.5-1.0)060513 Grab Surface Water	7083300
DUP-WS-36-060513 Grab Surface Water	7083301
WS-TB-65-060513 Water	7083302

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

REVISED

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 #: 1395061

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

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

Batch #: G131582AA (Sample number(s): 7083288-7083302 UNSPK: P85429)

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

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13158WAA026 (Sample number(s): 7083288-7083300)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7083300

Sample #s: 7083288, 7083289, 7083290, 7083291, 7083292, 7083293, 7083294, 7083295, 7083296, 7083297, 7083298, 7083299

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

Sample #s: 7083300, 7083301

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.

SW-846 6010B, Metals

Batch #: 131571848002 (Sample number(s): 7083288-7083301 UNSPK: 7083294 BKG: 7083294)

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

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Sample Description: WS-003(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083288
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 08:30 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05003 SDG#: PEI05-01

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

REVISED

Sample Description: WS-003(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083288
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 08:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05003 SDG#: PEI05-01

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.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.015 J	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	0.012 J	0.011	0.055	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	18.9	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	0.0248	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

REVISED

Sample Description: WS-003(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083288
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 08:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05003 SDG#: PEI05-01

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	
01750	Calcium	7440-70-2	4.19	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	2.04	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0022 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	G131582AA	06/07/2013 22:24	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/07/2013 22:24	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 13:01	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 21:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-002(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083289
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 08:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05002 SDG#: PEI05-02

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

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

REVISED

Sample Description: WS-002(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083289
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 08:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05002 SDG#: PEI05-02

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	0.3 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	0.1 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.2 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
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	17.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0167	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

REVISED

Sample Description: WS-002(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083289
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 08:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05002 SDG#: PEI05-02

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	
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	1.85	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/07/2013 22:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/07/2013 22:46	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 13:29	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 21:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-BKG-002(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083290
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 09:10 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05BK2 SDG#: PEI05-03

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

REVISED

Sample Description: WS-BKG-002(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083290
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 09:10 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05BK2 SDG#: PEI05-03

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
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	20.5	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	0.0357	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

REVISED

Sample Description: WS-BKG-002(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083290
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 09:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05BK2 SDG#: PEI05-03

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	
01750	Calcium	7440-70-2	4.82	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.06	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	0.0029 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

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	G131582AA	06/07/2013 23:08	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/07/2013 23:08	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 13:58	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 21:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-005(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083291
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 09:30 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05005 SDG#: PEI05-04

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

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

REVISED

Sample Description: WS-005(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083291
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 09:30 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05005 SDG#: PEI05-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
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	19.9	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	0.0149	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

REVISED

Sample Description: WS-005(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083291
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 09:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05005 SDG#: PEI05-04

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	
01750	Calcium	7440-70-2	4.64	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	2.02	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0022 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	G131582AA	06/07/2013 23:30	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/07/2013 23:30	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 14:27	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 21:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-008(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083292
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:00 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05008 SDG#: PEI05-05

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

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

REVISED

Sample Description: WS-008(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083292
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05008 SDG#: PEI05-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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.	0.031	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	31.9	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	0.0367	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

REVISED

Sample Description: WS-008(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083292
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05008 SDG#: PEI05-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	6.46	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0029 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.83	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0053 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0033 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/07/2013 23:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/07/2013 23:52	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 14:56	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 21:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083293
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:30 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05011 SDG#: PEI05-06

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

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

REVISED

Sample Description: WS-001(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083293
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05011 SDG#: PEI05-06

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.	0.030	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	16.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0191	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

REVISED

Sample Description: WS-001(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083293
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05011 SDG#: PEI05-06

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	
01750	Calcium	7440-70-2	3.64	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0011 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0020 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 00:14	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 00:14	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 15:24	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 21:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083294
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:40 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05012 SDG#: PEI05-07

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

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

REVISED

Sample Description: WS-001(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083294
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05012 SDG#: PEI05-07

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.	0.031	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	15.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0179	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

REVISED

Sample Description: WS-001(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083294
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 10:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05012 SDG#: PEI05-07

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	
01750	Calcium	7440-70-2	3.56	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	1.71	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	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 00:36	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 00:36	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 15:53	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 21:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-004(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083295
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 11:00 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05041 SDG#: PEI05-08

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	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

REVISED

Sample Description: WS-004(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083295
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 11:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05041 SDG#: PEI05-08

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	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	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	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	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	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	13.7	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	0.0353	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

REVISED

Sample Description: WS-004(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083295
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 11:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05041 SDG#: PEI05-08

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	
01750	Calcium	7440-70-2	3.06	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0038 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0057 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.47	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 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	0.0052	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 00:58	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 00:58	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 17:20	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 22:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-004(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083296
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 11:10 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05042 SDG#: PEI05-09

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

REVISED

Sample Description: WS-004(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083296
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 11:10 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05042 SDG#: PEI05-09

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	1.1	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	0.011 J	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.8	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	0.0561	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

REVISED

Sample Description: WS-004(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083296
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 11:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05042 SDG#: PEI05-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.46	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0072 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0187	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.73	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0064 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	0.0097	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 01:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 01:19	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 17:49	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 22:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083297
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:10 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05071 SDG#: PEI05-10

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	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

REVISED

Sample Description: WS-007(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083297
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05071 SDG#: PEI05-10

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	1.1	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	0.013 J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.021 J	0.010	0.052	1
08357	Anthracene	120-12-7	0.040 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.13	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.12	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.41	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.075	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.13	0.010	0.052	1
08357	Chrysene	218-01-9	0.31	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.020 J	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.58	0.010	0.052	1
08357	Fluorene	86-73-7	0.012 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.11	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.12	0.031	0.052	1
08357	Pyrene	129-00-0	0.47	0.010	0.052	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	16.5	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	0.0528	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

REVISED

Sample Description: WS-007(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083297
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05071 SDG#: PEI05-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.48	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0064 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0056 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.89	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0059 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	0.0082	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 01:41	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 01:41	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 18:17	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 22:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083298
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:20 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05072 SDG#: PEI05-11

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

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

REVISED

Sample Description: WS-007(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083298
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:20 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05072 SDG#: PEI05-11

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	1.2	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	0.034 J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.068	0.010	0.052	1
08357	Anthracene	120-12-7	0.14	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.56	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.45	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.5	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.25	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.49	0.010	0.052	1
08357	Chrysene	218-01-9	1.2	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.063	0.010	0.052	1
08357	Fluoranthene	206-44-0	2.4	0.010	0.052	1
08357	Fluorene	86-73-7	0.030 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.36	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.011 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.016 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.47	0.031	0.052	1
08357	Pyrene	129-00-0	1.9	0.010	0.052	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	21.0	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	0.103	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

REVISED

Sample Description: WS-007(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083298
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05072 SDG#: PEI05-11

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	
01750	Calcium	7440-70-2	3.86	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0123 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0206	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0101	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	0.0177	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 02:03	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 02:03	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 18:46	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 22:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083299
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:30 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05061 SDG#: PEI05-12

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

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

REVISED

Sample Description: WS-006(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083299
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:30 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05061 SDG#: PEI05-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.011 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.011 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	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	0.012 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.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.014 J	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	16.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0225	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

REVISED

Sample Description: WS-006(Surface)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083299
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05061 SDG#: PEI05-12

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	
01750	Calcium	7440-70-2	3.64	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	1.74	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0019 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0016 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 02:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 02:25	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 19:15	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 22:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083300
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:40 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05062 SDG#: PEI05-13

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

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

REVISED

Sample Description: WS-006(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083300
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:40 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05062 SDG#: PEI05-13

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.	0.030	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.

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 CaCO3	471-34-1	16.4	0.064	0.20

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

REVISED

Sample Description: WS-006(0.5-1.0)060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083300
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 12:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05062 SDG#: PEI05-13

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	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0214	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.66	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	1.76	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	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 02:47	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 02:47	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13158WAA026	06/11/2013 19:44	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13158WAA026	06/07/2013 21:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 22:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: DUP-WS-36-060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083301
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05D36 SDG#: PEI05-14FD

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

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

REVISED

Sample Description: DUP-WS-36-060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083301
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 by TM

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05D36 SDG#: PEI05-14FD

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	0.012 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	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 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 CaCO3	471-34-1	31.5	0.064	0.20

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

REVISED

Sample Description: DUP-WS-36-060513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083301
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/06/2013 09:20

PO Box 4416

Reported: 06/17/2013 08:12

Houston TX 77210-4416

05D36 SDG#: PEI05-14FD

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	0.0365	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.37	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0029 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.79	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0049 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

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	G131582AA	06/08/2013 03:09	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 03:09	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13163WAA026	06/13/2013 22:42	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13163WAA026	06/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131616256010	06/10/2013 09:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07046	Barium	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
01750	Calcium	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07055	Lead	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07066	Silver	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131571848002	06/07/2013 22:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	131575713004	06/07/2013 08:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131571848002	06/07/2013 11:32	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131575713004	06/06/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-TB-65-060513 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083302
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05T65 SDG#: PEI05-15TB*

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

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

REVISED

Sample Description: WS-TB-65-060513 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7083302
LLI Group # 1395061
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/05/2013

ExxonMobil

Submitted: 06/06/2013 09:20

Mobil Pipeline Company

Reported: 06/17/2013 08:12

PO Box 4416

Houston TX 77210-4416

05T65 SDG#: PEI05-15TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131582AA	06/08/2013 03:31	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131582AA	06/08/2013 03:31	Sara E Johnson	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 06/17/13 at 08:12 AM

Group Number: 1395061

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: G131582AA	Sample number(s): 7083288-7083302								
Acetone	N.D.	3.0	5.0	ug/l	112		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	122		61-130		
Benzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	109		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	106		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	114		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	90		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	114		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	112		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	94		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	93		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	111		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	111		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	102		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	110		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	101		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	77		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	105		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	110		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	112		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	106		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	101		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	104		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	99		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	154*		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	98		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	99		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: 1395061

Reported: 06/17/13 at 08:12 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	107		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	105		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	104		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	113		80-120		
Styrene	N.D.	0.1	0.5	ug/l	106		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	108		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	111		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	96		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	113		65-131		
Toluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	96		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	98		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	105		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	89		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	104		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	111		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	93		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	104		80-120		

Batch number: 13158WAA026

Sample number(s): 7083288-7083300

Acenaphthene	N.D.	0.010	0.050	ug/l	97	89	65-124	9	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	102	93	72-113	9	30
Anthracene	N.D.	0.010	0.050	ug/l	109	99	70-117	10	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	113	104	75-115	9	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	108	99	72-120	8	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	115	107	74-130	7	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	88	76	63-121	15	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	108	99	74-118	9	30
Chrysene	N.D.	0.010	0.050	ug/l	106	98	75-112	8	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	94	80	66-122	16	30
Fluoranthene	N.D.	0.010	0.050	ug/l	101	92	73-116	10	30
Fluorene	N.D.	0.010	0.050	ug/l	95	88	74-115	8	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	95	84	66-122	13	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	108	99	72-114	8	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105	98	74-119	7	30
Naphthalene	N.D.	0.030	0.050	ug/l	102	94	67-118	8	30
Phenanthrene	N.D.	0.030	0.050	ug/l	101	92	72-109	9	30
Pyrene	N.D.	0.010	0.050	ug/l	104	95	71-116	9	30

Batch number: 13163WAA026

Sample number(s): 7083301

Acenaphthene	N.D.	0.010	0.050	ug/l	92		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	96		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	96		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	104		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	92		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	108		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	92		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	98		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	95		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	87		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	100		73-116		

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1395061

Reported: 06/17/13 at 08:12 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	N.D.	0.010	0.050	ug/l	94		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	97		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	101		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	98		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	95		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	98		71-116		

Batch number: 131571848002

Sample number(s): 7083288-7083301

Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	98		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	97		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	101		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	97		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	101		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	100		90-110		

Batch number: 131575713004

Sample number(s): 7083288-7083301

Mercury	N.D.	0.00007	0.00020	mg/l	95		80-120		
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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: G131582AA	Sample number(s): 7083288-7083302 UNSPK: P085429								
Acetone	114	97	57-163	16	30				
Allyl Chloride	131	125	67-139	5	30				
Benzene	110	105	87-126	5	30				
Bromobenzene	111	107	80-123	4	30				
Bromochloromethane	113	110	82-125	3	30				
Bromodichloromethane	109	107	82-133	2	30				
Bromoform	114	114	60-138	0	30				
Bromomethane	97	91	41-145	7	30				
2-Butanone	121	102	63-146	17	30				
n-Butylbenzene	118	114	83-131	4	30				
sec-Butylbenzene	117	112	84-128	5	30				
tert-Butylbenzene	114	109	84-135	5	30				
Carbon Tetrachloride	126	120	81-148	5	30				
Chlorobenzene	110	104	78-133	5	30				
Chloroethane	102	95	70-139	7	30				
Chloroform	115	110	86-136	4	30				
Chloromethane	99	92	55-152	8	30				
2-Chlorotoluene	115	110	81-120	4	30				
4-Chlorotoluene	116	109	82-119	7	30				
1,2-Dibromo-3-chloropropane	101	85	43-143	16	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: 06/17/13 at 08:12 AM

Group Number: 1395061

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
Dibromochloromethane	113	110	79-125	3	30				
1,2-Dibromoethane	104	102	84-127	2	30				
Dibromomethane	100	98	83-126	2	30				
1,2-Dichlorobenzene	110	107	83-117	3	30				
1,3-Dichlorobenzene	112	106	81-118	5	30				
1,4-Dichlorobenzene	110	105	79-120	4	30				
Dichlorodifluoromethane	86	78	28-136	10	30				
1,1-Dichloroethane	112	106	88-136	5	30				
1,2-Dichloroethane	112	106	82-135	5	30				
1,1-Dichloroethene	115	111	83-150	4	30				
cis-1,2-Dichloroethene	111	106	82-129	5	30				
trans-1,2-Dichloroethene	119	111	88-127	7	30				
Dichlorofluoromethane	120	111	59-176	8	30				
1,2-Dichloropropane	116	112	91-126	3	30				
1,3-Dichloropropane	106	103	80-127	3	30				
2,2-Dichloropropane	111	108	80-134	3	30				
1,1-Dichloropropene	120	115	86-139	5	30				
cis-1,3-Dichloropropene	109	107	74-132	2	30				
trans-1,3-Dichloropropene	106	104	71-128	2	30				
Ethyl ether	108	109	67-127	1	30				
Ethylbenzene	110	105	80-140	5	30				
Freon 113	113	109	87-158	4	30				
Hexachlorobutadiene	110	106	65-128	4	30				
Isopropylbenzene	109	103	81-133	5	30				
p-Isopropyltoluene	113	107	84-124	6	30				
Methyl Tertiary Butyl Ether	106	107	82-132	1	30				
4-Methyl-2-Pentanone	104	105	69-149	2	30				
Methylene Chloride	112	109	84-122	3	30				
n-Propylbenzene	120	114	79-131	5	30				
Styrene	109	105	63-151	4	30				
1,1,1,2-Tetrachloroethane	110	108	87-126	2	30				
1,1,2,2-Tetrachloroethane	112	113	75-131	1	30				
Tetrachloroethene	104	99	75-129	5	30				
Tetrahydrofuran	118	98	56-154	19	30				
Toluene	114	107	83-127	7	30				
1,2,3-Trichlorobenzene	96	96	73-125	1	30				
1,2,4-Trichlorobenzene	101	98	77-120	2	30				
1,1,1-Trichloroethane	113	108	85-140	4	30				
1,1,2-Trichloroethane	108	105	85-129	2	30				
Trichloroethene	115	111	85-131	4	30				
Trichlorofluoromethane	101	94	67-161	8	30				
1,2,3-Trichloropropane	108	110	76-120	1	30				
1,2,4-Trimethylbenzene	114	111	87-126	3	30				
1,3,5-Trimethylbenzene	116	110	89-129	6	30				
Vinyl Chloride	103	95	65-151	7	30				
Xylene (Total)	110	104	81-137	5	30				

Batch number: 13163WAA026	Sample number(s): 7083301 UNSPK: P088187				
Acenaphthene	91	85	59-127	4	30
Acenaphthylene	96	88	33-146	5	30
Anthracene	85	83	69-119	0	30
Benzo(a)anthracene	105	96	67-124	6	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: 06/17/13 at 08:12 AM

Group Number: 1395061

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	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	80	67	64-123	14	30				
Benzo(b)fluoranthene	96	82	61-133	13	30				
Benzo(g,h,i)perylene	89	73	36-138	17	30				
Benzo(k)fluoranthene	90	75	59-128	15	30				
Chrysene	83	72	62-118	11	30				
Dibenz(a,h)anthracene	90	74	32-141	17	30				
Fluoranthene	83	93	65-123	14	30				
Fluorene	94	88	69-124	4	30				
Indeno(1,2,3-cd)pyrene	95	77	29-143	17	30				
1-Methylnaphthalene	105	98	67-117	4	30				
2-Methylnaphthalene	101	95	71-126	3	30				
Naphthalene	104	97	58-131	4	30				
Phenanthrene	97	92	67-117	3	30				
Pyrene	97	91	59-125	3	30				

Batch number: 131571848002	Sample number(s): 7083288-7083301 UNSPK: 7083294 BKG: 7083294								
Arsenic	99	101	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	101	100	78-118	1	20	0.0179	0.0185	4 (1)	20
Cadmium	100	99	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	101	99	81-118	1	20	3.56	3.67	3	20
Chromium	102	101	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	103	102	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	101	99	75-125	1	20	1.71	1.77	4	20
Nickel	104	103	86-115	1	20	0.0023 J	0.0014 J	48* (1)	20
Selenium	100	101	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	101	99	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	102	100	90-111	2	20	N.D.	N.D.	0 (1)	20

Batch number: 131575713004	Sample number(s): 7083288-7083301 UNSPK: 7083293 BKG: 7083293								
Mercury	96	95	80-120	2	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.Analysis Name: BTEX 25-ml purge
Batch number: G131582AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7083288	102	101	99	96
7083289	101	98	99	95
7083290	100	98	99	95
7083291	101	97	100	95
7083292	101	100	99	96
7083293	100	98	99	95
7083294	102	98	100	96
7083295	100	97	99	96
7083296	100	99	100	96

*- Outside of specification

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Quality Control Summary

Client Name: ExxonMobil
Reported: 06/17/13 at 08:12 AM

Group Number: 1395061

Surrogate Quality Control

7083297	101	97	99	95
7083298	102	99	100	96
7083299	101	100	99	95
7083300	101	98	100	95
7083301	102	98	100	96
7083302	101	100	100	96
Blank	101	100	100	94
LCS	99	98	102	97
MS	100	96	101	97
MSD	100	103	101	99

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

Batch number: 13158WAA026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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7083288	85	62	101
7083289	82	67	94
7083290	94	99	102
7083291	83	66	97
7083292	79	75	89
7083293	86	64	99
7083294	91	70	103
7083295	81	85	91
7083296	78	80	90
7083297	77	79	88
7083298	74	79	86
7083299	93	76	106
7083300	77	52*	92
Blank	90	104	101
LCS	97	110	107
LCSD	89	101	100

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

Batch number: 13163WAA026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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7083301	97	89	104
Blank	99	106	104
LCS	99	103	107
MS	99	93	110
MSD	94	79	102

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

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

ExxonMobil Analysis Request/Chain of Custody



**Lancaster
Laboratories**

Acct. # 14739 For Eurofins Lancaster Laboratories use only
Group # 1395061 Sample # 7083288-302
Instructions on reverse side correspond with circled numbers.

pg. 1 of 2

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks	
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air ☐ Oil ☐ Total # of Containers				Preservation Code												SCR#: _____ Preservation Codes: H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
Site Address <u>Mayflower, AR</u>																					
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																		6 Data Analysis Questions: Lyndi Mott/ARLADIS	
Consultant/Office <u>ARLADIS-US</u>																					
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>																			
Sampler <u>Tyler Millum / Josh Oliver</u>																					
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers												
Date	Time																				
WS-003(surFace)060513	6/5/13	0830	✓				✓		6	✓	✓	✓									
WS-002(surFace)060513		0845	✓				✓		6	✓	✓	✓									
WS-BK6-002(surFace)060513		0910	✓				✓		6	✓	✓	✓									
WS-005(surFace)060513		0930	✓				✓		6	✓	✓	✓									
WS-008(surFace)060513		1000	✓				✓		6	✓	✓	✓									
WS-001(surFace)060513		1030	✓				✓		6	✓	✓	✓									
WS-001(0.5-1.0)060513		1040	✓				✓		6	✓	✓	✓									
WS-004(surFace)060513		1100	✓				✓		6	✓	✓	✓									
WS-004(0.5-1.0)060513		1110	✓				✓		6	✓	✓	✓									
WS-007(surFace)060513		1210	✓				✓		6	✓	✓	✓									
WS-007(0.5-1.0)060513		1220	✓				✓		6	✓	✓	✓									
WS-006(surFace)060513		1230	✓				✓		6	✓	✓	✓									
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Tyler Miller</u>				Date <u>6/5/13</u>		Time <u>1600</u>		Received by		Date		Time					
Standard <u>5 day</u> 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 <u>✓</u> Other								<u>Deborah Neslund</u>		<u>6/6/13</u>		<u>0920</u>					
Type VI (Raw Data)																					
NJ Reduced																					
Other																					
				Temperature Upon Receipt <u>0.8-1.8 °C</u>								Custody Seals Intact?		<u>Yes</u> No							

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

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7053 0413

pg. 2 of 2

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7053 0413

Environmental Sample Administration
Receipt Documentation Log

1395061

Client/Project: Xon MayflowerShipping Container Sealed: YES NODate of Receipt: 6/6/13Custody Seal Present *: YES NOTime of Receipt: 0920* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.8	TB	WI	Y	B	
2	↓	1.8	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Da Neshund / 208

Date/Time:

6/6/13 / 0930

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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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