

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

July 05, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/19/2013

Group Number: 1398099

SDG: PEI32

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL)

WS-003(Surface)061813 Grab Surface Water	7097737
WS-002(Surface)061813 Grab Surface Water	7097738
WS-005(Surface)061813 Grab Surface Water	7097739
WS-008(Surface)061813 Grab Surface Water	7097740
WS-008(Surface)061813MS Grab Surface Water	7097741
WS-008(Surface)061813MSD Grab Surface Water	7097742
WS-008(Surface)061813DUP Grab Surface Water	7097743
WS-001(Surface)061813 Grab Surface Water	7097744
WS-001(0.5-1.0)061813 Grab Surface Water	7097745
WS-004(Surface)061813 Grab Surface Water	7097746
WS-004(0.5-1.0)061813 Grab Surface Water	7097747
WS-007(Surface)061813 Grab Surface Water	7097748
WS-007(0.5-1.0)061813 Grab Surface Water	7097749
WS-006(Surface)061813 Grab Surface Water	7097750
WS-006(0.5-1.0)061813 Grab Surface Water	7097751
WS-TB-76-061813 Water	7097752

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

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ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
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ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
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ELECTRONIC	ExxonMobil	Attn: Julie Foster
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ELECTRONIC	ExxonMobil	Attn: Carl Wideman
COPY TO		

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1398099

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

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

Batch #: H131702AA (Sample number(s): 7097737-7097742, 7097744-7097752 UNSPK: 7097740)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Methylene Chloride, trans-1,2-Dichloroethene, 2-Butanone, Tetrahydrofuran, 1,2-Dibromo-3-chloropropane

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Acetone, 2-Butanone, Tetrahydrofuran

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13171WAE026 (Sample number(s): 7097737-7097742, 7097744-7097751 UNSPK: 7097740)

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

SW-846 6010B, Metals

Batch #: 131701848002 (Sample number(s): 7097737-7097751 UNSPK: 7097740 BKG: 7097740)

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

July 8, 2013

Ms. Lyndi Mott
ARCADIS
2929 Briarpark Drive, Suite 300
Houston, TX 77042

Dear Ms. Mott:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project: Mayflower, AR Pipeline Incident

Group No.: 1396775,1397455,1399494,1397668,1397806,1398443,1398099
SDG No.: various

The correction to the data affects the PAHs in water by SIM analysis only.

During an additional review of this data it was determined that the peaks used to quantify benzo(b)fluoranthene, benzo(k)fluoranthene and benzo(a)pyrene were assigned incorrectly on the GC/MS, instrument 11165. This error was made during the calibration of this GC/MS on June 20, 2013 and was discovered on June 27, 2013. Including matrix spike and matrix spike duplicates, 28 samples had reportable concentrations of at least one of these compounds. See Attachment I for the original and revised concentrations of these 3 compounds in those 28 samples. These compounds were not detected in the other samples analyzed during this timeframe except for QC spikes. The revision did not cause any QC that recovered within the quality control limits originally to now be outside of specification. The initial calibrations, all affected QC, and sample data were corrected. The revised analytical reports reflect this correction and are enclosed. Revised EDDs and data packages will also be re-submitted.

In addition, at the request of the client, in the instances where no sample results changed but quality control data was impacted, only the data packages will be revised and resent. See Attachment II for a list of those sample delivery groups

Our quality control department has initiated an investigation of this issue and will provide an investigation summary letter upon completion.

The revised analytical report reflects this correction and is enclosed.

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Ms. Lyndi Mott
July 8, 2013

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1892. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Richard Karam
Manager
Environmental Sciences

RK/slw
Enclosures

cc: Stephen Barrick (email)
Michael Firth (email)
Julie Foster (email)
Kathy Klinefelter (email)
Emily Leamer (email)
Rhiannon Parmalee (email)
Jamie Pritchard (email)
Michael Sixsmith (email)
Carl Wideman (email)

ATTACHMENT I

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI19	1396775	7091218	WS-008(Surface)061213MS Grab Surface Water	Benzo(b)fluoranthene	0.77	0.9
PEI19	1396775	7091218	WS-008(Surface)061213MS Grab Surface Water	Benzo(k)fluoranthene	0.68	0.82
PEI19	1396775	7091218	WS-008(Surface)061213MS Grab Surface Water	Benzo(a)pyrene	0.82	0.69
PEI19	1396775	7091219	WS-008(Surface)061213MSD Grab Surface Water	Benzo(b)fluoranthene	0.79	0.91
PEI19	1396775	7091219	WS-008(Surface)061213MSD Grab Surface Water	Benzo(k)fluoranthene	0.73	0.86
PEI19	1396775	7091219	WS-008(Surface)061213MSD Grab Surface Water	Benzo(a)pyrene	0.87	0.72
PEI19	1396775	7091224	WS-004(0.5-1.0)061213 Grab Surface Water	Benzo(b)fluoranthene	N.D.	0.011 J
PEI19	1396775	7091226	WS-007(0.5-1.0)061213 Grab Surface Water	Benzo(b)fluoranthene	0.2	0.4
PEI19	1396775	7091226	WS-007(0.5-1.0)061213 Grab Surface Water	Benzo(k)fluoranthene	0.12	0.13
PEI19	1396775	7091226	WS-007(0.5-1.0)061213 Grab Surface Water	Benzo(a)pyrene	0.13	0.12
PEI23	1397455	7094720	WS-007(Surface)061413 Grab Surface Water	Benzo(b)fluoranthene	0.11	0.24
PEI23	1397455	7094720	WS-007(Surface)061413 Grab Surface Water	Benzo(k)fluoranthene	0.071	0.072
PEI23	1397455	7094720	WS-007(Surface)061413 Grab Surface Water	Benzo(a)pyrene	0.076	0.069
PEI23	1397455	7094721	WS-007(Surface)061413 MS Grab Surface Water	Benzo(b)fluoranthene	0.75	0.92
PEI23	1397455	7094721	WS-007(Surface)061413 MS Grab Surface Water	Benzo(k)fluoranthene	0.74	0.82
PEI23	1397455	7094721	WS-007(Surface)061413 MS Grab Surface Water	Benzo(a)pyrene	0.78	0.77
PEI23	1397455	7094722	WS-007(Surface)061413 MSD Grab Surface Water	Benzo(b)fluoranthene	0.7	0.88
PEI23	1397455	7094722	WS-007(Surface)061413 MSD Grab Surface Water	Benzo(k)fluoranthene	0.74	0.78
PEI23	1397455	7094722	WS-007(Surface)061413 MSD Grab Surface Water	Benzo(a)pyrene	0.74	0.73
PEI23	1397455	7094724	WS-007(0.5-1.0)061413 Grab Surface Water	Benzo(b)fluoranthene	0.61	1.3
PEI23	1397455	7094724	WS-007(0.5-1.0)061413 Grab Surface Water	Benzo(k)fluoranthene	0.41	0.4

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI23	1397455	7094724	WS-007(0.5-1.0)061413 Grab Surface Water	Benzo(a)pyrene	0.41	0.4
PEI28	1397668	7095864	WS-004(Surface)061513 Grab Surface Water	Benzo(b)fluoranthene	0.011 J	0.022 J
PEI28	1397668	7095865	WS-004(0.5-1.0)061513 Grab Surface Water	Benzo(b)fluoranthene	0.015 J	0.029 J
PEI28	1397668	7095865	WS-004(0.5-1.0)061513 Grab Surface Water	Benzo(k)fluoranthene	0.012 J	0.011 J
PEI28	1397668	7095865	WS-004(0.5-1.0)061513 Grab Surface Water	Benzo(a)pyrene	0.011 J	0.012 J
PEI28	1397668	7095866	WS-007(Surface)061513 Grab Surface Water	Benzo(b)fluoranthene	0.020 J	0.039 J
PEI28	1397668	7095866	WS-007(Surface)061513 Grab Surface Water	Benzo(k)fluoranthene	0.011 J	0.014 J
PEI28	1397668	7095866	WS-007(Surface)061513 Grab Surface Water	Benzo(a)pyrene	0.013 J	N.D.
PEI28	1397668	7095867	WS-007(0.5-1.0)061513 Grab Surface Water	Benzo(b)fluoranthene	4.2	11
PEI28	1397668	7095867	WS-007(0.5-1.0)061513 Grab Surface Water	Benzo(k)fluoranthene	2.5	3.4
PEI28	1397668	7095867	WS-007(0.5-1.0)061513 Grab Surface Water	Benzo(a)pyrene	3.1	2.5
PEI28	1397668	7095870	DUP-WS-41-061513 Grab Surface Water	Benzo(b)fluoranthene	0.026 J	0.049 J
PEI28	1397668	7095870	DUP-WS-41-061513 Grab Surface Water	Benzo(a)pyrene	0.016 J	N.D.
PEI28	1397668	7095877	WS-004(0.5-1.0)061613 Grab Surface Water	Benzo(b)fluoranthene	0.020 J	0.036 J
PEI28	1397668	7095877	WS-004(0.5-1.0)061613 Grab Surface Water	Benzo(k)fluoranthene	0.016 J	0.013 J
PEI28	1397668	7095877	WS-004(0.5-1.0)061613 Grab Surface Water	Benzo(a)pyrene	0.014 J	0.015 J
PEI28	1397668	7095878	WS-007(Surface)061613 Grab Surface Water	Benzo(b)fluoranthene	0.11	0.27
PEI28	1397668	7095878	WS-007(Surface)061613 Grab Surface Water	Benzo(k)fluoranthene	0.050 J	0.09
PEI28	1397668	7095878	WS-007(Surface)061613 Grab Surface Water	Benzo(a)pyrene	0.082	0.052
PEI28	1397668	7095879	WS-007(Surface)061613 MS Grab Surface Water	Benzo(b)fluoranthene	0.83	1.1
PEI28	1397668	7095879	WS-007(Surface)061613 MS Grab Surface Water	Benzo(k)fluoranthene	0.89	0.88
PEI28	1397668	7095879	WS-007(Surface)061613 MS Grab Surface Water	Benzo(a)pyrene	0.86	0.9

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI28	1397668	7095880	WS-007(Surface)061613 MSD Grab Surface Water	Benzo(b)fluoranthene	0.88	1.1
PEI28	1397668	7095880	WS-007(Surface)061613 MSD Grab Surface Water	Benzo(k)fluoranthene	0.94	1.1
PEI28	1397668	7095880	WS-007(Surface)061613 MSD Grab Surface Water	Benzo(a)pyrene	1	0.94
PEI28	1397668	7095882	WS-007(0.5-1.0)061613 Grab Surface Water	Benzo(b)fluoranthene	1.5	3.7
PEI28	1397668	7095882	WS-007(0.5-1.0)061613 Grab Surface Water	Benzo(k)fluoranthene	0.97	1.4
PEI28	1397668	7095882	WS-007(0.5-1.0)061613 Grab Surface Water	Benzo(a)pyrene	1.2	0.89
PEI30	1397806	7096390	WS-004(0.5-1.0)061713 Grab Surface Water	Benzo(b)fluoranthene	0.026 J	0.041 J
PEI30	1397806	7096390	WS-004(0.5-1.0)061713 Grab Surface Water	Benzo(k)fluoranthene	0.019 J	0.021 J
PEI30	1397806	7096390	WS-004(0.5-1.0)061713 Grab Surface Water	Benzo(a)pyrene	0.020 J	0.018 J
PEI30	1397806	7096391	WS-007(Surface)061713 Grab Surface Water	Benzo(b)fluoranthene	0.015 J	0.021 J
PEI30	1397806	7096391	WS-007(Surface)061713 Grab Surface Water	Benzo(a)pyrene	0.011 J	N.D.
PEI30	1397806	7096392	WS-007(0.5-1.0)061713 Grab Surface Water	Benzo(b)fluoranthene	0.67	1.6
PEI30	1397806	7096392	WS-007(0.5-1.0)061713 Grab Surface Water	Benzo(k)fluoranthene	0.39	0.49
PEI30	1397806	7096392	WS-007(0.5-1.0)061713 Grab Surface Water	Benzo(a)pyrene	0.48	0.39
PEI30	1397806	7096395	DUP-WS-42-061713 Grab Surface Water	Benzo(b)fluoranthene	0.011 J	0.013 J
PEI32	1398099	7097737	WS-003(Surface)061813 Grab Surface Water	Benzo(b)fluoranthene	N.D.	0.014 J
PEI32	1398099	7097741	WS-008(Surface)061813MS Grab Surface Water	Benzo(b)fluoranthene	0.96	1.1
PEI32	1398099	7097741	WS-008(Surface)061813MS Grab Surface Water	Benzo(k)fluoranthene	0.51	0.99
PEI32	1398099	7097741	WS-008(Surface)061813MS Grab Surface Water	Benzo(a)pyrene	0.96	0.52
PEI32	1398099	7097742	WS-008(Surface)061813MSD Grab Surface Water	Benzo(b)fluoranthene	0.88	1
PEI32	1398099	7097742	WS-008(Surface)061813MSD Grab Surface Water	Benzo(k)fluoranthene	0.47	1
PEI32	1398099	7097742	WS-008(Surface)061813MSD Grab Surface Water	Benzo(a)pyrene	0.98	0.48

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI32	1398099	7097749	WS-007(0.5-1.0)061813 Grab Surface Water	Benzo(b)fluoranthene	0.22	0.45
PEI32	1398099	7097749	WS-007(0.5-1.0)061813 Grab Surface Water	Benzo(k)fluoranthene	0.13	0.16
PEI32	1398099	7097749	WS-007(0.5-1.0)061813 Grab Surface Water	Benzo(a)pyrene	0.16	0.13
PEI34	1398443	7099555	SO-NS40-EA-RB-01-061913 Grab Water	Benzo(a)pyrene	0.014 J	N.D.
PEI48	1399494	7105849	WG-NS50-PH-062413 Grab Groundwater	Benzo(b)fluoranthene	0.051 J	0.12
PEI48	1399494	7105849	WG-NS50-PH-062413 Grab Groundwater	Benzo(k)fluoranthene	0.051 J	0.049 J
PEI48	1399494	7105849	WG-NS50-PH-062413 Grab Groundwater	Benzo(a)pyrene	0.046 J	0.049 J

ATTACHMENT II

Sample delivery groups that will have revised raw data packages only.

Note: No sample results changed but quality control data was impacted.

Group	SDG
1396416	PEI16
1396792	PEI20
1397456	PEI25
1398761	PEI38
1399117	PEI41
1397675	PEI26
1397807	PEI31
1398111	PEI33

REVISED

Sample Description: WS-003(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097737
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 08:30 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18003 SDG#: PEI32-01

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)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097737
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 08:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18003 SDG#: PEI32-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.014 J	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	0.011 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.011 J	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	22.8	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	0.0297	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00043 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.12	0.0640	0.200	1

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

REVISED

Sample Description: WS-003(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097737
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 08:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18003 SDG#: PEI32-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.43	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0014 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131702AA	06/19/2013 19:03	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 19:03	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 14:11	Joseph M Gambler	1
10470	BNM Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:23	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-002(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097738
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 08:45 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18002 SDG#: PEI32-02

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)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097738
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 08:45 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18002 SDG#: PEI32-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	20.7	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	0.0197	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.67	0.0640	0.200	1

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

REVISED

Sample Description: WS-002(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097738
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 08:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18002 SDG#: PEI32-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.20	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131702AA	06/19/2013 19:24	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 19:24	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 14:41	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:27	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-005(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097739
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 09:20 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18005 SDG#: PEI32-03

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-005(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097739
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 09:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18005 SDG#: PEI32-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	24.8	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	0.0232	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.23	0.0640	0.200	1

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

REVISED

Sample Description: WS-005(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097739
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 09:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18005 SDG#: PEI32-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.25	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131702AA	06/19/2013 19:44	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 19:44	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 15:10	Joseph M Gambler	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/22/2013 20:07	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:39	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-008(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097740
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18008 SDG#: PEI32-04BKG

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

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

REVISED

Sample Description: WS-008(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097740
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18008 SDG#: PEI32-04BKG

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	0.014 J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.014 J	0.011	0.053	1
08357	Fluorene	86-73-7	0.013 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.088	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	70.7	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	0.0555	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00042 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	15.7	0.0640	0.200	1

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

REVISED

Sample Description: WS-008(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097740
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18008 SDG#: PEI32-04BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.65	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0035 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	H131702AA	06/19/2013 20:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 20:05	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 12:42	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 21:59	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-008(Surface)061813MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097741
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18008 SDG#: PEI32-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	39	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.6	0.1	0.5	1
02898	Benzene	71-43-2	6.1	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.1	0.1	0.5	1
02898	Bromochloromethane	74-97-5	6.0	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.6	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	6.0	0.1	0.5	1
02898	2-Butanone	78-93-3	41	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.2	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.2	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.4	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.8	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.4	0.1	0.5	1
02898	Chloroethane	75-00-3	6.2	0.1	0.5	1
02898	Chloroform	67-66-3	6.2	0.1	0.5	1
02898	Chloromethane	74-87-3	6.2	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.2	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.3	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.8	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.1	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.1	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.5	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.1	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.3	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.2	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	5.1	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	6.0	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.7	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.8	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	6.1	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.7	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	7.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.8	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.8	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.3	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.5	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.4	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.7	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.4	0.1	0.5	1
02898	Freon 113	76-13-1	6.9	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.6	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.3	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.5	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	26	1.0	5.0	1
02898	Methylene Chloride	75-09-2	6.2	0.2	0.5	1

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

REVISED

Sample Description: WS-008(Surface)061813MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097741
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18008 SDG#: PEI32-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.3	0.1	0.5	1
02898	Styrene	100-42-5	5.4	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.4	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.8	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	28	2.0	5.0	1
02898	Toluene	108-88-3	5.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.7	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.4	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.2	0.1	0.5	1
02898	Trichloroethene	79-01-6	6.4	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.3	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.8	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.2	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.3	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	6.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.011	0.053	1
08357	Acenaphthylene	208-96-8	1.2	0.011	0.053	1
08357	Anthracene	120-12-7	0.92	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.52	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.65	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.99	0.011	0.053	1
08357	Chrysene	218-01-9	0.89	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.71	0.011	0.053	1
08357	Fluoranthene	206-44-0	1.1	0.011	0.053	1
08357	Fluorene	86-73-7	1.1	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.011	0.053	1
08357	Naphthalene	91-20-3	1.2	0.032	0.053	1
08357	Phenanthrene	85-01-8	1.1	0.032	0.053	1
08357	Pyrene	129-00-0	1.1	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	89.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.156	0.0068	0.0200	1
07046	Barium	7440-39-3	2.10	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0500	0.00036	0.0050	1
01750	Calcium	7440-70-2	20.0	0.0640	0.200	1

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

REVISED

Sample Description: WS-008(Surface)061813MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097741
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18008 SDG#: PEI32-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.205	0.0011	0.0150	1
07055	Lead	7439-92-1	0.151	0.0051	0.0150	1
01757	Magnesium	7439-95-4	9.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.511	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.150	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0529	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.532	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00091	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	H131702AA	06/19/2013 20:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 20:25	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 13:12	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:11	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-008(Surface)061813MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097742
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18008 SDG#: PEI32-04MSD

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	55	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.5	0.1	0.5	1
02898	Benzene	71-43-2	5.9	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.0	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.8	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.6	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	5.8	0.1	0.5	1
02898	2-Butanone	78-93-3	57	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.1	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.3	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.7	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.4	0.1	0.5	1
02898	Chloroethane	75-00-3	5.9	0.1	0.5	1
02898	Chloroform	67-66-3	6.1	0.1	0.5	1
02898	Chloromethane	74-87-3	6.1	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.1	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.0	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	7.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.2	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.5	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.1	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.2	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.1	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.9	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.8	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	6.0	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.6	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	7.1	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.7	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.2	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.3	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.3	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.6	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.4	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.3	0.1	0.5	1
02898	Freon 113	76-13-1	6.8	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.2	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.4	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	25	1.0	5.0	1
02898	Methylene Chloride	75-09-2	6.2	0.2	0.5	1

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

REVISED

Sample Description: WS-008(Surface)061813MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097742
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18008 SDG#: PEI32-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.1	0.1	0.5	1
02898	Styrene	100-42-5	5.3	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.4	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.6	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	40	2.0	5.0	1
02898	Toluene	108-88-3	5.3	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.7	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.4	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.2	0.1	0.5	1
02898	Trichloroethene	79-01-6	6.2	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.3	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.7	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.1	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.2	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	6.5	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	0.89	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.48	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.63	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	1.0	0.010	0.051	1
08357	Chrysene	218-01-9	0.80	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.67	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	1.1	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.3	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.1	0.030	0.051	1
08357	Pyrene	129-00-0	1.1	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	86.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.159	0.0068	0.0200	1
07046	Barium	7440-39-3	2.07	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0497	0.00036	0.0050	1
01750	Calcium	7440-70-2	19.2	0.0640	0.200	1

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

REVISED

Sample Description: WS-008(Surface)061813MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097742
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18008 SDG#: PEI32-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.202	0.0011	0.0150	1
07055	Lead	7439-92-1	0.151	0.0051	0.0150	1
01757	Magnesium	7439-95-4	9.38	0.0606	0.100	1
07061	Nickel	7440-02-0	0.509	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0531	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.525	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00090	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	H131702AA	06/19/2013 20:45	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 20:45	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 13:41	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:15	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-008(Surface)061813DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097743
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:30 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18008 SDG#: PEI32-04DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	70.8	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	0.0559	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	15.8	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0012 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.64	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0034 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	0.0018 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
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:07	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097744
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:50 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18011 SDG#: PEI32-05

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

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

REVISED

Sample Description: WS-001(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097744
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:50 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18011 SDG#: PEI32-05

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	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0254	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00037 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.91	0.0640	0.200	1

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

REVISED

Sample Description: WS-001(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097744
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 10:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18011 SDG#: PEI32-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.22	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	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	H131702AA	06/19/2013 21:06	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 21:06	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 15:40	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:43	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097745
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:00 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18012 SDG#: PEI32-06

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

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

REVISED

Sample Description: WS-001(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097745
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:00 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18012 SDG#: PEI32-06

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
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.5	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	0.0293	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.87	0.0640	0.200	1

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

REVISED

Sample Description: WS-001(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097745
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18012 SDG#: PEI32-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.27	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0014 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131702AA	06/19/2013 21:26	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 21:26	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 16:09	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/22/2013 20:11	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:47	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-004(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097746
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:10 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18041 SDG#: PEI32-07

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

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

REVISED

Sample Description: WS-004(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097746
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:10 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18041 SDG#: PEI32-07

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.	0.011	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	N.D.	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	0.015 J	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	N.D.	0.011	0.055	1
Metals	SM 2340 B-1997	mg/l	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	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0218	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00052 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.76	0.0640	0.200	1

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

REVISED

Sample Description: WS-004(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097746
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18041 SDG#: PEI32-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0018 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	H131702AA	06/19/2013 21:47	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 21:47	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 16:39	Joseph M Gambler	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/22/2013 20:15	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:51	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-004(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097747
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:20 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18042 SDG#: PEI32-08

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

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

REVISED

Sample Description: WS-004(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097747
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:20 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18042 SDG#: PEI32-08

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	0.5 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.016 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	18.5	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	0.0346	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.57	0.0640	0.200	1

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

REVISED

Sample Description: WS-004(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097747
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18042 SDG#: PEI32-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0012 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.73	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0024 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	0.0024 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	H131702AA	06/19/2013 22:07	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 22:07	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 19:30	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/22/2013 20:19	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:55	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097748
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:40 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18071 SDG#: PEI32-09

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

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

REVISED

Sample Description: WS-007(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097748
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18071 SDG#: PEI32-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.017 J	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	0.027 J	0.010	0.052	1
08357	Fluorene	86-73-7	0.014 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.026 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.021 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	0.023 J	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	16.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0068 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0318	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00039 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.72	0.0640	0.200	1

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

REVISED

Sample Description: WS-007(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097748
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18071 SDG#: PEI32-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.66	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0030 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	H131702AA	06/19/2013 22:28	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 22:28	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 20:00	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/22/2013 20:22	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 22:59	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097749
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:50 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18072 SDG#: PEI32-10

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

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

REVISED

Sample Description: WS-007(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097749
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18072 SDG#: PEI32-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.8	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	0.025 J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.032 J	0.010	0.052	1
08357	Anthracene	120-12-7	0.058	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.17	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.13	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.45	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.10	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.16	0.010	0.052	1
08357	Chrysene	218-01-9	0.43	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.029 J	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.74	0.010	0.052	1
08357	Fluorene	86-73-7	0.023 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.10	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.026 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.021 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.19	0.031	0.052	1
08357	Pyrene	129-00-0	0.67	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0392	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.80	0.0640	0.200	1

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

REVISED

Sample Description: WS-007(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097749
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 11:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18072 SDG#: PEI32-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0017 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.72	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0023 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0036 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	H131702AA	06/19/2013 22:48	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 22:48	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 20:29	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/22/2013 20:26	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 23:03	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097750
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 12:00 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18061 SDG#: PEI32-11

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

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

REVISED

Sample Description: WS-006(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097750
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 12:00 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18061 SDG#: PEI32-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0217	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.92	0.0640	0.200	1

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

REVISED

Sample Description: WS-006(Surface)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097750
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 12:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18061 SDG#: PEI32-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.27	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131702AA	06/19/2013 23:09	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 23:09	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 20:59	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 23:07	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097751
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 12:10 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18062 SDG#: PEI32-12

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(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097751
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 12:10 by TM

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18062 SDG#: PEI32-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.3	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	0.0235	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.83	0.0640	0.200	1

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

REVISED

Sample Description: WS-006(0.5-1.0)061813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097751
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013 12:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/19/2013 09:05

PO Box 4416

Reported: 07/05/2013 08:51

Houston TX 77210-4416

18062 SDG#: PEI32-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.24	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131702AA	06/19/2013 23:30	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 23:30	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13171WAE026	06/24/2013 21:28	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13171WAE026	06/20/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256012	06/21/2013 12:45	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131701848002	06/22/2013 20:30	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131701848002	06/20/2013 23:11	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131705713003	06/21/2013 08:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131701848002	06/20/2013 10:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713003	06/20/2013 15:30	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-TB-76-061813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097752
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18T76 SDG#: PEI32-13TB*

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

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

REVISED

Sample Description: WS-TB-76-061813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7097752
LL Group # 1398099
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/18/2013

ExxonMobil

Submitted: 06/19/2013 09:05

Mobil Pipeline Company

Reported: 07/05/2013 08:51

PO Box 4416

Houston TX 77210-4416

18T76 SDG#: PEI32-13TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131702AA	06/19/2013 18:02	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131702AA	06/19/2013 18:02	Sara E Johnson	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/05/13 at 08:51 AM

Group Number: 1398099

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: H131702AA	Sample number(s): 7097737-7097742, 7097744-7097752								
Acetone	N.D.	3.0	5.0	ug/l	90		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	93		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	91		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	110		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	100		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	93		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	105		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	84		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	83		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	88		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	91		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	112		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	104		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	94		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	91		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	90		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	87		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	92		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	94		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	101		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	93		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	92		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	92		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	81		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	113		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	113		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	126		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	89		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	106		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	86		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	100		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	107		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	84		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: 1398099

Reported: 07/05/13 at 08:51 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	88		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	102		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	97		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	108		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	88		80-120		
Styrene	N.D.	0.1	0.5	ug/l	94		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	97		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	87		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	95		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	90		65-131		
Toluene	N.D.	0.1	0.5	ug/l	93		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	86		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	88		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	109		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	93		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	108		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	92		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	90		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	91		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	101		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	94		80-120		

Batch number: 13171WAE026

Sample number(s): 7097737-7097742,7097744-7097751

Acenaphthene	N.D.	0.010	0.050	ug/l	93		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	101		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	94		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	93		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	94		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	106		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	91		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	100		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	94		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	85		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	97		73-116		
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	87		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	97		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	95		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	96		71-116		

Batch number: 131701848002

Sample number(s): 7097737-7097751

Arsenic	N.D.	0.0068	0.0200	mg/l	103		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	101		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	101		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	105		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	104		90-110		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1398099

Reported: 07/05/13 at 08:51 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131705713003	Sample number(s): 7097737-7097751								
Mercury	N.D.	0.00007	0.00020	mg/l	97		80-120		
		0							

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: H131702AA	Sample number(s): 7097737-7097742, 7097744-7097752 UNSPK: 7097740								
Acetone	89	134	57-163	36*	30				
Allyl Chloride	112	110	67-139	2	30				
Benzene	122	118	87-126	3	30				
Bromobenzene	102	99	80-123	3	30				
Bromochloromethane	121	116	82-125	4	30				
Bromodichloromethane	113	113	82-133	0	30				
Bromoform	98	98	60-138	1	30				
Bromomethane	121	116	41-145	4	30				
2-Butanone	109	153*	63-146	33*	30				
n-Butylbenzene	104	103	83-131	1	30				
sec-Butylbenzene	105	103	84-128	2	30				
tert-Butylbenzene	107	105	84-135	2	30				
Carbon Tetrachloride	136	134	81-148	2	30				
Chlorobenzene	108	107	78-133	1	30				
Chloroethane	124	118	70-139	5	30				
Chloroform	124	123	86-136	1	30				
Chloromethane	124	122	55-152	1	30				
2-Chlorotoluene	104	102	81-120	2	30				
4-Chlorotoluene	105	100	82-119	5	30				
1,2-Dibromo-3-chloropropane	116	153*	43-143	28	30				
Dibromochloromethane	102	100	79-125	2	30				
1,2-Dibromoethane	102	104	84-127	2	30				
Dibromomethane	111	110	83-126	0	30				
1,2-Dichlorobenzene	103	101	83-117	1	30				
1,3-Dichlorobenzene	105	103	81-118	2	30				
1,4-Dichlorobenzene	104	103	79-120	1	30				
Dichlorodifluoromethane	103	98	28-136	5	30				
1,1-Dichloroethane	120	117	88-136	2	30				
1,2-Dichloroethane	114	110	82-135	3	30				
1,1-Dichloroethene	137	136	83-150	1	30				
cis-1,2-Dichloroethene	122	120	82-129	2	30				
trans-1,2-Dichloroethene	134*	132*	88-127	2	30				
Dichlorofluoromethane	146	142	59-176	2	30				
1,2-Dichloropropane	117	114	91-126	3	30				
1,3-Dichloropropane	97	98	80-127	1	30				
2,2-Dichloropropane	125	125	80-134	1	30				
1,1-Dichloropropene	129	126	86-139	2	30				
cis-1,3-Dichloropropene	109	107	74-132	2	30				
trans-1,3-Dichloropropene	94	93	71-128	1	30				
Ethyl ether	105	108	67-127	3	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: 07/05/13 at 08:51 AM

Group Number: 1398099

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	107	107	80-140	1	30				
Freon 113	138	136	87-158	1	30				
Hexachlorobutadiene	108	105	65-128	4	30				
Isopropylbenzene	111	109	81-133	2	30				
p-Isopropyltoluene	105	103	84-124	2	30				
Methyl Tertiary Butyl Ether	109	109	82-132	0	30				
4-Methyl-2-Pentanone	102	101	69-149	1	30				
Methylene Chloride	125*	124*	84-122	1	30				
n-Propylbenzene	105	102	79-131	3	30				
Styrene	107	107	63-151	1	30				
1,1,1,2-Tetrachloroethane	108	108	87-126	0	30				
1,1,2,2-Tetrachloroethane	97	92	75-131	5	30				
Tetrachloroethene	116	113	75-129	3	30				
Tetrahydrofuran	110	159*	56-154	37*	30				
Toluene	109	107	83-127	2	30				
1,2,3-Trichlorobenzene	95	95	73-125	0	30				
1,2,4-Trichlorobenzene	98	98	77-120	0	30				
1,1,1-Trichloroethane	128	128	85-140	1	30				
1,1,2-Trichloroethane	104	105	85-129	1	30				
Trichloroethene	127	124	85-131	3	30				
Trichlorofluoromethane	126	126	67-161	1	30				
1,2,3-Trichloropropane	96	93	76-120	3	30				
1,2,4-Trimethylbenzene	104	102	87-126	2	30				
1,3,5-Trimethylbenzene	106	104	89-129	2	30				
Vinyl Chloride	121	130	65-151	7	30				
Xylene (Total)	109	108	81-137	1	30				

Batch number: 13171WAE026 Sample number(s): 7097737-7097742,7097744-7097751 UNSPK: 7097740

Acenaphthene	98	99	59-127	3	30
Acenaphthylene	112	111	33-146	5	30
Anthracene	87	88	69-119	3	30
Benzo(a)anthracene	101	99	67-124	6	30
Benzo(a)pyrene	50*	47*	64-123	9	30
Benzo(b)fluoranthene	101	100	61-133	5	30
Benzo(g,h,i)perylene	62	62	36-138	3	30
Benzo(k)fluoranthene	94	101	59-128	4	30
Chrysene	84	79	62-118	11	30
Dibenz(a,h)anthracene	67	66	32-141	6	30
Fluoranthene	103	105	65-123	2	30
Fluorene	102	108	69-124	1	30
Indeno(1,2,3-cd)pyrene	70	70	29-143	4	30
1-Methylnaphthalene	114	110	67-117	8	30
2-Methylnaphthalene	114	110	71-126	8	30
Naphthalene	109	116	58-131	2	30
Phenanthrene	109	106	67-117	7	30
Pyrene	103	105	59-125	2	30

Batch number: 131701848002 Sample number(s): 7097737-7097751 UNSPK: 7097740 BKG: 7097740

Arsenic	104	106	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	102	101	78-118	1	20	0.0555	0.0559	1	20
Cadmium	99	99	83-116	1	20	0.00042 J	N.D.	200* (1)	20
Calcium	107	87	81-118	4	20	15.7	15.8	0	20

*- 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 SummaryClient Name: ExxonMobil
Reported: 07/05/13 at 08:51 AM

Group Number: 1398099

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Chromium	102	101	81-120	1	20	N.D.	0.0012 J	200* (1)	20
Lead	100	101	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	101	87	75-125	3	20	7.65	7.64	0	20
Nickel	101	101	86-115	0	20	0.0035 J	0.0034 J	1 (1)	20
Selenium	100	99	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	106	106	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	106	105	90-111	1	20	N.D.	0.0018 J	200* (1)	20

Batch number: 131705713003

Sample number(s): 7097737-7097751 UNSPK: 7097740 BKG: 7097740

Mercury 91 90 80-120 1 20 N.D. N.D. 0 (1) 20

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

Analysis Name: BTEX 25-ml purge

Batch number: H131702AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

7097737	107	100	93	99
7097738	107	101	93	99
7097739	107	104	94	98
7097740	107	103	93	98
7097741	105	98	95	100
7097742	105	98	95	101
7097744	107	102	93	98
7097745	106	102	93	98
7097746	106	102	93	98
7097747	107	105	93	99
7097748	108	103	94	99
7097749	106	101	93	98
7097750	106	103	93	97
7097751	109	101	95	98
7097752	107	106	95	100
Blank	106	104	94	99
LCS	104	102	95	100
MS	105	98	95	100
MSD	105	98	95	101

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

Analysis Name: PAHs in waters by SIM

Batch number: 13171WAE026

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

7097737	97	69	103
7097738	92	76	98

*- 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: 07/05/13 at 08:51 AM

Group Number: 1398099

Surrogate Quality Control

7097739	92	77	93
7097740	93	69	102
7097741	106	87	111
7097742	96	79	108
7097744	85	76	94
7097745	97	75	103
7097746	95	88	100
7097747	92	81	99
7097748	90	81	101
7097749	85	75	96
7097750	96	76	103
7097751	94	71	100
Blank	92	91	103
LCS	90	93	100
MS	106	87	111
MSD	96	79	108

Limits: 64-120 62-141 58-134

*- Outside of specification

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

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

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



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Laboratories**

For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 139899 Sample # 7097737-52
Instructions on reverse side correspond with circled numbers.

Pg. 1 of 2

1 Client Information										4 Matrix		5 Analyses Requested										6					
Facility #/SID Mayflower Pipeline Incident										Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Sediment ☐ Air ☐ Oil ☐ Total # of Containers		Preservation Code										SCR#:					
Site Address Mayflower, AR												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other										Remarks Data Analysis Questions! Lyndi Mott/ARCADIS					
ExxonMobil PM Scott Bushroe					Cost Center/AFE																						
Consultant/Office ARCADIS-US																											
Consultant PM Steve Barrick					Consultant Phone # 919-302-6799																						
Sampler Tyler Milburn/Hans Van Ailer										3																	
2 Sample Identification										Collected		Grab		Composite													
										Date		Time															
WS-003(Surface)061813										6/18/13		0830		✓													
WS-002(Surface)061813												0845		✓													
WS-005(Surface)061813												0920		✓													
WS-008(Surface)061813												1030		✓													
WS-008(Surface)061813 MS/MSD												1030		✓												MS/MSD	
WS-001(Surface)061813												1050		✓													
WS-001(0.5-1.0)061813												1100		✓													
WS-004(Surface)061813												1110		✓													
WS-004(0.5-1.0)061813												1120		✓													
WS-007(Surface)061813												1140		✓													
WS-007(0.5-1.0)061813												1150		✓													
WS-006(Surface)061813												1200		✓													
7 Turnaround Time Requested (TAT) (please circle)										Relinquished by Tyler Mills		Date 6/18/13		Time 1300		Received by		Date		Time							
Standard 5 day 4 day										Relinquished by		Date		Time		Received by		Date		Time							
72 hour 48 hour 24 hour										Relinquished by		Date		Time		Received by		Date		Time							
8 Data Package (circle if required)										Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time							
Type I - Full										UPS		FedEx		Other		Custody Seals Intact?		Yes No									
Type VI (Raw Data)										Temperature Upon Receipt 0.3-1.1 °C																	
NJ Reduced																											
Other																											



Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1398099 Sample # 7091737-52
Instructions on reverse side correspond with circled numbers.

For Eurofins Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers

Pg. 2 of 2

(1) Client Information				(4) Matrix		(5) Analyses Requested Preservation Code														SCR#: _____								
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment ☐	Ground ☐ Surface ☒															Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other								
Site Address <u>Mayflower, AR</u>																												
Exxon/Mobil PM <u>Scott Bushroe</u>		Cost Center/AFE																										
Consultant/Office <u>ARCADEIS - US</u>																												
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>																										
Sampler <u>Tyler Milburn / Has Van Ailer</u>																				(6) Remarks <u>Date Analysis Questions!</u> <u>Lynni Mott / ARCADEIS</u>								
(2)		Collected		Grab	Composite	Soil	Potable Water	NPDES	Air	Oil	Total # of Containers																	
Sample Identification		Date	Time																									
<u>WS-006 (O.S.-I.D.) 061813</u>		<u>6/18/13</u>	<u>1210</u>	☒			☒				<u>6</u>	VOCs 8260B																
<u>WS-TB-76-061813</u>		<u>6/18/13</u>	<u>-</u>	☒			☒				<u>2</u>	PAH 8270 SIM	RCA Metals + Ni-Ve-Mg															
(7) Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour														Relinquished by <u>Tyler Mills</u>		Date <u>6/18/13</u>	Time <u>1300</u>	Received by	Date	Time	(9)							
														Relinquished by		Date	Time	Received by	Date	Time								
														Relinquished by		Date	Time	Received by	Date	Time								
														Relinquished by Commercial Carrier		Temperature Upon Receipt <u>0.3-1.1 °C</u>		Custody Seals Intact? Yes ☒ No ☐										
(8) Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____				Relinquished by _____ Date _____ Time _____ Received by <u>Xelora Ruffin</u> Date <u>6/19/13</u> Time <u>0905</u>																				

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

Issued by Dept. 40 Management

7053 0413

Environmental Sample Administration
Receipt Documentation Log

1398099

Client/Project: XOM MayflowerShipping Container Sealed: YES NODate of Receipt: 6/19/13Custody Seal Present * : YES NOTime of Receipt: 0905* 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	DT131	1.1	TB	WI	Y	B	
2	↓	0.3	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Da Hsland / 208Date/Time: 6/19/13 0915

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
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 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.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

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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