ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 02, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/28/2013
Group Number: 1386035
SDG: PEG81
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(SURFACE)042713 Grab Surface Water	7037929
WS-002(SURFACE)042713 Grab Surface Water	7037930
WS-BKG-001(SURFACE)042713 Grab Surface Water	7037931
WS-005(SURFACE)042713 Grab Surface Water	7037932
WS-001(SURFACE)042713 Grab Surface Water	7037933
WS-001(0.5-1.0)042713 Grab Surface Water	7037934
WS-004(SURFACE)042713 Grab Surface Water	7037935
WS-004(0.5-1.0)042713 Grab Surface Water	7037936
WS-007(SURFACE)042713 Grab Surface Water	7037937
WS-007(0.5-1.0)042713 Grab Surface Water	7037938
WS-006(SURFACE)042713 Grab Surface Water	7037939
WS-006(0.5-1.0)042713 Grab Surface Water	7037940
WS-008(SURFACE)042713 Grab Surface Water	7037941
WS-TB25-042713 Water	7037942
WS-DUP-15-042713 Grab Surface Water	7037943

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: Scott Bushroe
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ELECTRONIC COPY TO ARCADIS Attn: Emily Leamer

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1386035

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:

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

Batch #: G131201AA (Sample number(s): 7037929-7037936 UNSPK: P29142)

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

Batch #: G131211AA (Sample number(s): 7037941-7037943 UNSPK: P37796)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 2-Chlorotoluene, 4-Chlorotoluene

Batch #: H131202AA (Sample number(s): 7037937-7037940 UNSPK: P37156)

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

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13119WAB026 (Sample number(s): 7037929-7037941, 7037943)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD exceeded the acceptance window indicating a positive bias: Phenanthrene, Fluoranthene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7037934, 7037935, 7037936, 7037937, 7037938

Sample #s: 7037943

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
fluoranthene

Sample #s: 7037936, 7037937, 7037938

The percent recoveries for several compounds in the LCS/LCSD associated with this sample were outside QC specification high. Any detected compounds would be
biased slightly high. The client was contacted and the data was reported.
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Sample #s: 7037934, 7037935

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

SW-846 6010B, Metals

Batch #: 131181848001 (Sample number(s): 7037929-7037941, 7037943 UNSPK: 7037929 BKG: 7037929)

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

Sample Description: WS-003(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037929
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 07:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S003S SDG#: PEG81-01

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-003(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037929
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 07:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S003S SDG#: PEG81-01

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.8	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	0.0233	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.23	0.0640	0.200	1

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

Sample Description: WS-003(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037929
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 07:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S003S SDG#: PEG81-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.64	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	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	G131201AA	04/30/2013 23:10	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	04/30/2013 23:10	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 05:03	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 17:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-002(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037930
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:10 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S002S SDG#: PEG81-02

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-002(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037930
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:10 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S002S SDG#: PEG81-02

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	14.6	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	0.0204	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.19	0.0640	0.200	1

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

Sample Description: WS-002(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037930
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:10 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S002S SDG#: PEG81-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.60	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0015 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	G131201AA	04/30/2013 23:32	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	04/30/2013 23:32	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 05:30	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 17:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-BKG-001(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037931
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:30 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

B001S SDG#: PEG81-03

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-BKG-001(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037931
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:30 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

B001S SDG#: PEG81-03

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	0.0332	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.91	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037931
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:30 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

B001S SDG#: PEG81-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0013 J	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	0.0015 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	0.0015 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	G131201AA	04/30/2013 23:53	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	04/30/2013 23:53	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 05:57	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 17:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-005(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037932
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S005S SDG#: PEG81-04

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

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

Sample Description: WS-005(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037932
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S005S SDG#: PEG81-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
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	15.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0173	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.41	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037932
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 08:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S005S SDG#: PEG81-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.62	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	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	G131201AA	05/01/2013 00:15	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	05/01/2013 00:15	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 06:24	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-001(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037933
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 09:20 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S001S SDG#: PEG81-05

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-001(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037933
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 09:20 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S001S SDG#: PEG81-05

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	16.0	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0394	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.54	0.0640	0.200	1

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

Sample Description: WS-001(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037933
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 09:20 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S001S SDG#: PEG81-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.73	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0022 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0034 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	G131201AA	05/01/2013 00:36	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	05/01/2013 00:36	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 06:51	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037934
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 09:25 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0010 SDG#: PEG81-06

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-001(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037934
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 09:25 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0010 SDG#: PEG81-06

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.0	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0300	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037934
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 09:25 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0010 SDG#: PEG81-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.29	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0013 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.65	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0017 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0026 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	G131201AA	05/01/2013 00:58	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	05/01/2013 00:58	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 07:18	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:17	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-004(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037935
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:20 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S004S SDG#: PEG81-07

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	4.6 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037935
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:20 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S004S SDG#: PEG81-07

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.1	J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.4	J	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	N.D.		0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.		0.010	0.051	1
08357	Fluorene	86-73-7	0.015	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.011	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.011	J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.013	J	0.010	0.051	1

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	39.5		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0112	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.258		0.00033	0.0050	1

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

Sample Description: WS-004(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037935
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:20 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S004S SDG#: PEG81-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.46	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0263	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0312	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.07	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0252	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	0.0418	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000099 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131201AA	05/01/2013 01:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	05/01/2013 01:19	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 07:46	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:22	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-004(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037936
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:25 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0040 SDG#: PEG81-08

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 purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	4.2	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

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

Sample Description: WS-004(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037936
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:25 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0040 SDG#: PEG81-08

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.1	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.1	J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.4	J	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.020	J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.017	J	0.010	0.051	1
08357	Anthracene	120-12-7	0.019	J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.027	J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.031	J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.035	J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.040	J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.030	J	0.010	0.051	1
08357	Chrysene	218-01-9	0.031	J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.036	J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.030	J	0.010	0.051	1
08357	Fluorene	86-73-7	0.032	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.038	J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.033	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.033	J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.045	J	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.051	1
08357	Pyrene	129-00-0	0.033	J	0.010	0.051	1

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

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	38.8		0.064	0.20	1

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

Sample Description: WS-004(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037936
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:25 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0040 SDG#: PEG81-08

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**	
07035	Arsenic	7440-38-2	0.0107 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.261	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00045 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.13	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0263	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0312	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.10	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0255	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	0.0420	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000092 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131201AA	05/01/2013 01:41	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131201AA	05/01/2013 01:41	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 08:13	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:27	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-007(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037937
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:45 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S007S SDG#: PEG81-09

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	6.7	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037937
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:45 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S007S SDG#: PEG81-09

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.2	J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.3	J	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	0.033	J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.012	J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.024	J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	0.027	J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	0.23		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	0.014	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.013	J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.14		0.010	0.051	1

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

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	38.7		0.064	0.20	1

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

Sample Description: WS-007(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037937
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:45 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S007S SDG#: PEG81-09

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**	
07035	Arsenic	7440-38-2	0.0113 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.266	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00040 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.95	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0267	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0311	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.19	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0253	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	0.0424	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00011 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131202AA	05/01/2013 00:51	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131202AA	05/01/2013 00:51	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 08:40	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:31	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037938
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0070 SDG#: PEG81-10

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	6.4	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037938
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0070 SDG#: PEG81-10

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.4	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.1	J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.6		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.7		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.015	J	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.050	1
08357	Anthracene	120-12-7	0.040	J	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	0.015	J	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	0.011	J	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	0.077		0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	0.016	J	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	0.023	J	0.010	0.050	1
08357	Chrysene	218-01-9	0.092		0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.050	1
08357	Fluoranthene	206-44-0	0.30		0.010	0.050	1
08357	Fluorene	86-73-7	0.019	J	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.020	J	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	0.015	J	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	0.013	J	0.010	0.050	1
08357	Naphthalene	91-20-3	0.031	J	0.030	0.050	1
08357	Phenanthrene	85-01-8	0.042	J	0.030	0.050	1
08357	Pyrene	129-00-0	0.16		0.010	0.050	1

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

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	38.4		0.064	0.20	1

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

Sample Description: WS-007(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037938
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 10:50 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0070 SDG#: PEG81-10

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**	
07035	Arsenic	7440-38-2	0.0110 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.271	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.76	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0267	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0331	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.23	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0257	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	0.0439	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000098 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131202AA	05/01/2013 01:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131202AA	05/01/2013 01:13	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 09:07	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-006(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037939
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:10 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S006S SDG#: PEG81-11

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-006(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037939
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:10 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S006S SDG#: PEG81-11

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	17.4	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0535	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.82	0.0640	0.200	1

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

Sample Description: WS-006(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037939
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:10 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S006S SDG#: PEG81-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0024 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.90	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0028 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	0.0039 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	H131202AA	05/01/2013 01:34	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131202AA	05/01/2013 01:34	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 09:34	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:41	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 13:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037940
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:15 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0060 SDG#: PEG81-12

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-006(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037940
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:15 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0060 SDG#: PEG81-12

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	17.9	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0306	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.12	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037940
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:15 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S0060 SDG#: PEG81-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.85	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	0.0027 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	H131202AA	05/01/2013 01:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131202AA	05/01/2013 01:56	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 10:02	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 14:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037941
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:30 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S008S SDG#: PEG81-13

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

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

Sample Description: WS-008(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037941
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:30 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S008S SDG#: PEG81-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.6		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.1	J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.8		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.052	1
08357	Anthracene	120-12-7	N.D.		0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.052	1
08357	Chrysene	218-01-9	N.D.		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.		0.010	0.052	1
08357	Fluorene	86-73-7	N.D.		0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.052	1
08357	Pyrene	129-00-0	N.D.		0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	26.5		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	0.0408		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	5.50		0.0640	0.200	1

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

Sample Description: WS-008(SURFACE)042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037941
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 11:30 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

S008S SDG#: PEG81-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0033 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.09	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0048 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	0.0047 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	G131211AA	05/01/2013 12:06	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131211AA	05/01/2013 12:06	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 10:29	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 18:51	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 14:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Sample Description: WS-TB25-042713 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037942
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

STB25 SDG#: PEG81-14TB

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-TB25-042713 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037942
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

STB25 SDG#: PEG81-14TB

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 purge**		ug/l	ug/l	ug/l	
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	G131211AA	05/01/2013 11:45	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131211AA	05/01/2013 11:45	Kerri E Legerlotz	1

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

Sample Description: WS-DUP-15-042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037943
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

SDP15 SDG#: PEG81-15FD*

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-DUP-15-042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037943
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

SDP15 SDG#: PEG81-15FD*

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.6		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.1	J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.5		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	0.011	J	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.		0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.051	1
08357	Pyrene	129-00-0	N.D.		0.010	0.051	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	26.7		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	

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

Sample Description: WS-DUP-15-042713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7037943
LLI Group # 1386035
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/27/2013 by AD

Submitted: 04/28/2013 09:45
Reported: 05/02/2013 14:42

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

SDP15 SDG#: PEG81-15FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0400	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.58	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0027 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.11	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0045 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0049 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	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	G131211AA	05/01/2013 12:28	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131211AA	05/01/2013 12:28	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAB026	05/02/2013 10:56	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAB026	04/29/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131196256001	04/29/2013 21:35	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07046	Barium	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
01750	Calcium	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07055	Lead	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07066	Silver	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131181848001	04/29/2013 19:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	131195713001	04/29/2013 14:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131181848001	04/28/2013 23:55	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131195713001	04/29/2013 07:30	Damary Valentin	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

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

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: G131201AA	Sample number(s): 7037929-7037936								
Acetone	N.D.	3.0	5.0	ug/l	99		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	120		61-130		
Benzene	N.D.	0.1	0.5	ug/l	102		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	102		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	95		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	99		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	88		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	105		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	114		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	104		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	87		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	102		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	77		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	116		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	115		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	103		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	98		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	92		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	67		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	85		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	112		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	110		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	90		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	95		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	97		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	104		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	87		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	77		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	102		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	105		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: 1386035
Reported: 05/02/13 at 02:42 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	112		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	92		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	84		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	101		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	117		80-120		
Styrene	N.D.	0.1	0.5	ug/l	103		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	105		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	96		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	114		65-131		
Toluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	97		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	103		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	99		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	94		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	87		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	100		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	84		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	103		80-120		
Batch number: G131211AA	Sample number(s): 7037941-7037943								
Acetone	N.D.	3.0	5.0	ug/l	99		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	119		61-130		
Benzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	100		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	92		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	94		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	98		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	107		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	114		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	103		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	96		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	99		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	90		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	115		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	116		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	104		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	93		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	91		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	89		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	94		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	83		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	105		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	101		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	92		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	96		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	100		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	94		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	85		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	73		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	100		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	104		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	111		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	89		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	79		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	102		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	116		80-120		
Styrene	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	105		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	94		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	112		65-131		
Toluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	95		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	102		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	99		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	94		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	94		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	94		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	95		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	101		80-120		
Batch number: H131202AA	Sample number(s): 7037937-7037940								
Acetone	N.D.	3.0	5.0	ug/l	85		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	104		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	103		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	102		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	104		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	103		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	100		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	106		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	102		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	105		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	104		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	92		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	103		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	100		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	115		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	106		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	120		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	105		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	107		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	85		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	104		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	99		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	103		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	102		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	102		80-120		
Styrene	N.D.	0.1	0.5	ug/l	105		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	93		65-131		
Toluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	100		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	101		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	105		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	106		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	103		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	105		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	104		80-120		
Batch number: 13119WAB026	Sample number(s): 7037929-7037941,7037943								
Acenaphthene	N.D.	0.010	0.050	ug/l	117	116	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	111	110	72-113	0	30
Anthracene	N.D.	0.010	0.050	ug/l	115	116	70-117	1	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	108	107	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	122*	122*	72-120	0	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	132*	131*	74-130	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	111	112	63-121	1	30

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	124*	124*	74-118	0	30
Chrysene	N.D.	0.010	0.050	ug/l	109	108	75-112	1	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	104	104	66-122	1	30
Fluoranthene	N.D.	0.010	0.050	ug/l	118*	120*	73-116	2	30
Fluorene	N.D.	0.010	0.050	ug/l	113	113	74-115	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	108	114	66-122	5	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	111	111	72-114	0	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105	106	74-119	1	30
Naphthalene	N.D.	0.030	0.050	ug/l	100	101	67-118	1	30
Phenanthrene	N.D.	0.030	0.050	ug/l	116*	117*	72-109	1	30
Pyrene	N.D.	0.010	0.050	ug/l	106	105	71-116	0	30
Batch number: 131181848001	Sample number(s): 7037929-7037941,7037943								
Arsenic	N.D.	0.0068	0.0200	mg/l	106		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	107		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	108		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	107		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	109		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	107		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	104		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	103		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	105		90-110		
Batch number: 131195713001	Sample number(s): 7037929-7037941,7037943								
Mercury	N.D.	0.00007 0	0.00020	mg/l	101		80-120		

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: G131201AA	Sample number(s): 7037929-7037936 UNSPK: P029142								
Acetone	112	99	57-163	12	30				
Allyl Chloride	118	114	67-139	3	30				
Benzene	110	101	87-126	4	30				
Bromobenzene	110	106	80-123	4	30				
Bromochloromethane	100	98	82-125	2	30				
Bromodichloromethane	92	89	82-133	3	30				
Bromoform	92	87	60-138	5	30				
Bromomethane	88	85	41-145	4	30				
2-Butanone	118	102	63-146	15	30				
n-Butylbenzene	116	111	83-131	4	30				
sec-Butylbenzene	114	110	84-128	4	30				
tert-Butylbenzene	114	113	84-135	1	30				
Carbon Tetrachloride	99	97	81-148	1	30				
Chlorobenzene	151 (2)	114 (2)	78-133	4	30				
Chloroethane	88	86	70-139	2	30				
Chloroform	100	98	86-136	2	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chloromethane	83	82	55-152	2	30				
2-Chlorotoluene	117	114	81-120	3	30				
4-Chlorotoluene	117	113	82-119	4	30				
1,2-Dibromo-3-chloropropane	107	99	43-143	8	30				
Dibromochloromethane	91	89	79-125	3	30				
1,2-Dibromoethane	93	89	84-127	4	30				
Dibromomethane	92	87	83-126	5	30				
1,2-Dichlorobenzene	109	105	83-117	4	30				
1,3-Dichlorobenzene	111	108	81-118	3	30				
1,4-Dichlorobenzene	110	105	79-120	4	30				
Dichlorodifluoromethane	81	78	28-136	4	30				
1,1-Dichloroethane	103	99	88-136	4	30				
1,2-Dichloroethane	85	83	82-135	2	30				
1,1-Dichloroethene	108	104	83-150	4	30				
cis-1,2-Dichloroethene	104	101	82-129	3	30				
trans-1,2-Dichloroethene	109	105	88-127	4	30				
Dichlorofluoromethane	90	90	59-176	1	30				
1,2-Dichloropropane	101	97	91-126	4	30				
1,3-Dichloropropane	96	91	80-127	5	30				
2,2-Dichloropropane	97	96	80-134	1	30				
1,1-Dichloropropene	103	101	86-139	2	30				
cis-1,3-Dichloropropene	95	92	74-132	3	30				
trans-1,3-Dichloropropene	86	80	71-128	7	30				
Ethyl ether	80	76	67-127	5	30				
Ethylbenzene	107	101	80-140	5	30				
Freon 113	98	94	87-158	4	30				
Hexachlorobutadiene	103	102	65-128	2	30				
Isopropylbenzene	106	101	81-133	5	30				
p-Isopropyltoluene	113	109	84-124	4	30				
Methyl Tertiary Butyl Ether	92	90	82-132	2	30				
4-Methyl-2-Pentanone	82	80	69-149	3	30				
Methylene Chloride	103	100	84-122	3	30				
n-Propylbenzene	119	115	79-131	4	30				
Styrene	104	98	63-151	6	30				
1,1,1,2-Tetrachloroethane	103	97	87-126	6	30				
1,1,2,2-Tetrachloroethane	108	106	75-131	2	30				
Tetrachloroethene	96	92	75-129	4	30				
Tetrahydrofuran	129	107	56-154	18	30				
Toluene	106	101	83-127	5	30				
1,2,3-Trichlorobenzene	100	98	73-125	3	30				
1,2,4-Trichlorobenzene	104	102	77-120	2	30				
1,1,1-Trichloroethane	98	97	85-140	1	30				
1,1,2-Trichloroethane	98	91	85-129	7	30				
Trichloroethene	106	104	85-131	3	30				
Trichlorofluoromethane	82	80	67-161	2	30				
1,2,3-Trichloropropane	101	98	76-120	2	30				
1,2,4-Trimethylbenzene	114	110	87-126	3	30				
1,3,5-Trimethylbenzene	114	110	89-129	4	30				
Vinyl Chloride	86	85	65-151	2	30				
Xylene (Total)	104	99	81-137	5	30				

Batch number: G131211AA Sample number(s): 7037941-7037943 UNSPK: P037796

*- 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: 1386035
Reported: 05/02/13 at 02:42 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acetone	102	107	57-163	4	30				
Allyl Chloride	115	119	67-139	4	30				
Benzene	98	103	87-126	4	30				
Bromobenzene	103	114	80-123	10	30				
Bromochloromethane	100	102	82-125	2	30				
Bromodichloromethane	89	99	82-133	10	30				
Bromoform	90	103	60-138	14	30				
Bromomethane	98	96	41-145	1	30				
2-Butanone	106	111	63-146	5	30				
n-Butylbenzene	111	120	83-131	8	30				
sec-Butylbenzene	110	120	84-128	8	30				
tert-Butylbenzene	109	119	84-135	9	30				
Carbon Tetrachloride	102	107	81-148	5	30				
Chlorobenzene	100	109	78-133	9	30				
Chloroethane	97	96	70-139	1	30				
Chloroform	97	103	86-136	6	30				
Chloromethane	94	92	55-152	2	30				
2-Chlorotoluene	113	123*	81-120	9	30				
4-Chlorotoluene	113	123*	82-119	8	30				
1,2-Dibromo-3-chloropropane	104	114	43-143	9	30				
Dibromochloromethane	90	102	79-125	13	30				
1,2-Dibromoethane	88	100	84-127	12	30				
Dibromomethane	89	96	83-126	8	30				
1,2-Dichlorobenzene	103	113	83-117	9	30				
1,3-Dichlorobenzene	106	117	81-118	10	30				
1,4-Dichlorobenzene	104	113	79-120	9	30				
Dichlorodifluoromethane	99	97	28-136	2	30				
1,1-Dichloroethane	98	102	88-136	4	30				
1,2-Dichloroethane	83	88	82-135	6	30				
1,1-Dichloroethene	110	111	83-150	1	30				
cis-1,2-Dichloroethene	102	106	82-129	4	30				
trans-1,2-Dichloroethene	106	109	88-127	3	30				
Dichlorofluoromethane	107	105	59-176	2	30				
1,2-Dichloropropane	99	107	91-126	8	30				
1,3-Dichloropropane	92	101	80-127	9	30				
2,2-Dichloropropane	95	98	80-134	4	30				
1,1-Dichloropropene	102	104	86-139	3	30				
cis-1,3-Dichloropropene	91	101	74-132	10	30				
trans-1,3-Dichloropropene	83	91	71-128	10	30				
Ethyl ether	69	70	67-127	2	30				
Ethylbenzene	102	110	80-140	8	30				
Freon 113	103	104	87-158	1	30				
Hexachlorobutadiene	102	111	65-128	9	30				
Isopropylbenzene	101	109	81-133	7	30				
p-Isopropyltoluene	108	119	84-124	10	30				
Methyl Tertiary Butyl Ether	88	93	82-132	6	30				
4-Methyl-2-Pentanone	82	91	69-149	10	30				
Methylene Chloride	99	101	84-122	2	30				
n-Propylbenzene	114	124	79-131	8	30				
Styrene	100	110	63-151	10	30				
1,1,1,2-Tetrachloroethane	97	110	87-126	13	30				
1,1,2,2-Tetrachloroethane	103	114	75-131	11	30				

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetrachloroethene	95	101	75-129	6	30				
Tetrahydrofuran	114	121	56-154	6	30				
Toluene	102	109	83-127	7	30				
1,2,3-Trichlorobenzene	93	105	73-125	12	30				
1,2,4-Trichlorobenzene	100	109	77-120	9	30				
1,1,1-Trichloroethane	98	103	85-140	4	30				
1,1,2-Trichloroethane	94	102	85-129	8	30				
Trichloroethene	105	108	85-131	4	30				
Trichlorofluoromethane	99	96	67-161	3	30				
1,2,3-Trichloropropane	98	107	76-120	9	30				
1,2,4-Trimethylbenzene	107	117	87-126	9	30				
1,3,5-Trimethylbenzene	109	120	89-129	10	30				
Vinyl Chloride	101	101	65-151	0	30				
Xylene (Total)	100	109	81-137	8	30				
Batch number: H131202AA	Sample number(s): 7037937-7037940 UNSPK: P037156								
Acetone	95	136	57-163	35*	30				
Allyl Chloride	112	109	67-139	3	30				
Benzene	111	109	87-126	2	30				
Bromobenzene	105	106	80-123	0	30				
Bromochloromethane	110	107	82-125	3	30				
Bromodichloromethane	108	106	82-133	2	30				
Bromoform	110	108	60-138	2	30				
Bromomethane	106	106	41-145	1	30				
2-Butanone	134	186*	63-146	33*	30				
n-Butylbenzene	108	108	83-131	0	30				
sec-Butylbenzene	109	109	84-128	1	30				
tert-Butylbenzene	107	108	84-135	1	30				
Carbon Tetrachloride	117	114	81-148	2	30				
Chlorobenzene	109	109	78-133	1	30				
Chloroethane	104	107	70-139	3	30				
Chloroform	112	110	86-136	2	30				
Chloromethane	106	108	55-152	2	30				
2-Chlorotoluene	106	106	81-120	1	30				
4-Chlorotoluene	107	105	82-119	2	30				
1,2-Dibromo-3-chloropropane	129	177*	43-143	32*	30				
Dibromochloromethane	107	107	79-125	1	30				
1,2-Dibromoethane	106	105	84-127	0	30				
Dibromomethane	108	107	83-126	1	30				
1,2-Dichlorobenzene	108	107	83-117	1	30				
1,3-Dichlorobenzene	107	107	81-118	0	30				
1,4-Dichlorobenzene	106	107	79-120	1	30				
Dichlorodifluoromethane	116	120	28-136	3	30				
1,1-Dichloroethane	114	113	88-136	2	30				
1,2-Dichloroethane	110	109	82-135	1	30				
1,1-Dichloroethene	121	118	83-150	2	30				
cis-1,2-Dichloroethene	112	110	82-129	2	30				
trans-1,2-Dichloroethene	116	113	88-127	2	30				
Dichlorofluoromethane	119	124	59-176	4	30				
1,2-Dichloropropane	113	113	91-126	1	30				
1,3-Dichloropropane	107	106	80-127	1	30				
2,2-Dichloropropane	113	111	80-134	2	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloropropene	114	112	86-139	1	30				
cis-1,3-Dichloropropene	114	113	74-132	1	30				
trans-1,3-Dichloropropene	105	105	71-128	0	30				
Ethyl ether	90	86	67-127	5	30				
Ethylbenzene	110	109	80-140	1	30				
Freon 113	115	113	87-158	2	30				
Hexachlorobutadiene	106	115	65-128	8	30				
Isopropylbenzene	110	108	81-133	1	30				
p-Isopropyltoluene	109	108	84-124	1	30				
Methyl Tertiary Butyl Ether	110	108	82-132	2	30				
4-Methyl-2-Pentanone	114	111	69-149	3	30				
Methylene Chloride	114	112	84-122	1	30				
n-Propylbenzene	108	107	79-131	1	30				
Styrene	110	108	63-151	1	30				
1,1,1,2-Tetrachloroethane	107	106	87-126	1	30				
1,1,2,2-Tetrachloroethane	107	104	75-131	3	30				
Tetrachloroethene	112	112	75-129	0	30				
Tetrahydrofuran	125	168*	56-154	29	30				
Toluene	108	107	83-127	1	30				
1,2,3-Trichlorobenzene	103	107	73-125	4	30				
1,2,4-Trichlorobenzene	104	106	77-120	2	30				
1,1,1-Trichloroethane	115	113	85-140	2	30				
1,1,2-Trichloroethane	108	107	85-129	1	30				
Trichloroethene	113	112	85-131	1	30				
Trichlorofluoromethane	108	112	67-161	4	30				
1,2,3-Trichloropropane	104	103	76-120	1	30				
1,2,4-Trimethylbenzene	107	107	87-126	0	30				
1,3,5-Trimethylbenzene	108	107	89-129	1	30				
Vinyl Chloride	108	112	65-151	3	30				
Xylene (Total)	110	109	81-137	1	30				
Batch number: 131181848001	Sample number(s): 7037929-7037941,7037943 UNSPK: 7037929 BKG: 7037929								
Arsenic	106	107	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	106	106	78-118	0	20	0.0233	0.0228	2 (1)	20
Cadmium	108	108	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	105	104	81-118	0	20	3.23	3.24	1	20
Chromium	103	103	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	110	109	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	104	103	75-125	1	20	1.64	1.64	0	20
Nickel	109	110	86-115	0	20	0.0018 J	0.0013 J	29* (1)	20
Selenium	105	107	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	100	101	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	105	106	90-111	0	20	0.0014 J	N.D.	200* (1)	20
Batch number: 131195713001	Sample number(s): 7037929-7037941,7037943 UNSPK: 7037930 BKG: 7037930								
Mercury	103	100	80-120	3	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1386035
Reported: 05/02/13 at 02:42 PM

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge
Batch number: G131201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7037929	96	91	97	95
7037930	95	88	98	96
7037931	96	89	96	94
7037932	95	90	97	93
7037933	95	90	98	94
7037934	96	91	99	96
7037935	95	89	97	96
7037936	95	87	97	94
Blank	98	93	96	95
LCS	96	91	98	95
MS	95	89	99	96
MSD	96	88	97	95
Limits:	77-114	74-113	77-110	78-110

Analysis Name: NHDES VOCs 25ml purge
Batch number: G131211AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7037941	95	89	97	96
7037942	96	92	97	96
7037943	94	90	98	96
Blank	96	91	96	94
LCS	96	88	99	96
MS	96	90	98	96
MSD	96	90	98	96
Limits:	77-114	74-113	77-110	78-110

Analysis Name: NHDES VOCs 25ml purge
Batch number: H131202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7037937	101	102	99	100
7037938	99	101	100	100
7037939	101	103	99	99
7037940	101	104	99	99
Blank	100	100	99	99
LCS	100	101	100	101
MS	102	104	99	102
MSD	101	101	99	102
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13119WAB026

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

*- 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: 1386035
Reported: 05/02/13 at 02:42 PM

Surrogate Quality Control

7037929	100	83	103
7037930	103	94	103
7037931	102	86	100
7037932	99	90	100
7037933	100	89	103
7037934	85	51*	95
7037935	65	45*	81
7037936	66	36*	88
7037937	65	38*	85
7037938	67	28*	95
7037939	94	77	97
7037940	101	90	102
7037941	96	69	100
7037943	102	96	102
Blank	103	117	102
LCS	108	124	109
LCSD	107	120	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.

ExxonMobil Analysis Request/Chain of Custody

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Acct. # 14739 Group # 1386035 Sample # 7037929-43

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

Pg 1

SCR#: 13[illegible]46

1 Client Information

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower, AR

ExxonMobil PM: Scott Bushroe

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Barrick

Consultant Phone #: 919-302-6799

Sampler: Aaron Dayton / Josh Oliver (734) 604-1707

4 Matrix

Sediment ☐ Soil ☐ Water ☒ Oil ☐

Ground ☐ Potable ☐ Surface ☒ NPDES ☐ Air ☐

3 Grab / Composite

2 Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | **5 Analyses Requested** (Preservation Code: H / N) VOCs 8260 B | PAH 8270 SIM | RCRA Metals + NV (Ca, Mg, hardness)

Sample Identification	Date	Time	Grab	Composite	Total # of Containers	VOCs 8260 B	PAH 8270 SIM	RCRA Metals + NV (Ca, Mg, hardness)
WS-003 (Surface) 042713	4/27/13	~~0750~~ ~~0815~~	X		6	X	X	X
WS-002 (Surface) 042713		~~0810~~ ~~0840~~				X	X	X
WS-BKG-001 (Surface) 042713		0830				X	X	X
WS-005 (Surface) 042713		0850				X	X	X
WS-001 (Surface) 042713		0920				X	X	X
WS-001 (0.5-1.0) 042713		0925				X	X	X
WS-004 (Surface) 042713		1020				X	X	X
WS-004 (0.5-1.0) 042713		1025				X	X	X
WS-007 (Surface) 042713		1045				X	X	X
WS-007 (0.5-1.0) 042713		1050				X	X	X
WS-006 (Surface) 042713		1110				X	X	X
WS-006 (0.5-1.0) 042713	↓	1115	↓		↓	X	X	X

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

6 Remarks

Data analysis questions Lyndi Mott, ARCADIS

Note: Surface waters are now 3 day TAT. RKreamer 4/29/13

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day
72 hour | 48 hour | (24 hour)

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	Date	Time
[signature]	~~4/24/13~~	1336			
[signature]	4-27-13	1400			
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other Southwest			Received by: Anneliese H. Owen	4/28/13	0945

9

Temperature Upon Receipt 2.7-4.6 °C

Custody Seals Intact? (Yes) No

ExxonMobil Analysis Request/Chain of Custody

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For Lancaster Laboratories use only
Acct. # 14739 Group # 1386035 Sample # 7037929-43
Instructions on reverse side correspond with circled numbers.

Pg 2

SCR#:

① Client Information

Facility #/SID: Mayflower Pipeline Incident
Site Address: Mayflower, AR
ExxonMobil PM: Scott Bushroe
Cost Center/AFE:
Consultant/Office: ARCADIS
Consultant PM: Steve Barrick
Consultant Phone #: 919-302-6799
Sampler: Aaron Dayton / Josh Oliver (734) 604-1707

④ Matrix: Sediment ☐; Water: Ground ☐, Surface ☒; Potable ☐; NPDES ☐; Air ☐; Soil ☐; Water; Oil ☐

⑤ Analyses Requested — Preservation Code: H (VOCs 8260B), N (RCRA Metals + Ni, Co, V, Mg, Hardness)

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

② Sample Identification	Collected Date	Collected Time	③ Grab	Composite	Soil	Water	Oil	Total # of Containers	VOCs 8260B	PAH 8270 SIM	RCRA Metals + Ni, Co, V, Mg, Hardness	⑥ Remarks
WS-008 (Surface) 042713	4/27/13	1130	X			X		6	X	X	X	Note: surface waters are now 3day TAT RKrumm 4/29/13
WS-TB25-042713	↓	=	X			X		2	X			
WS-DUP-15-042713	↓	=	X			X		6	X	X	X	

Remarks: Data analysis Question Lynda Mott, ARCADIS

⑦ Turnaround Time Requested (TAT) (please circle)
Standard 5 day 4 day
72 hour 48 hour (24 hour — circled)

⑧ Data Package (circle if required)
Type I - Full
Type VI (Raw Data)
NJ Reduced
Other ______

EDD (circle if required)
Locus EIM (default)
Other ______

⑨

Relinquished by	Date	Time	Received by	Date	Time
Aaron Dayton	4-27-13	1400			

Relinquished by Commercial Carrier: UPS ____ FedEx ____ (Other — circled) Southwest
Received by: Anneliese H. Owen Date: 4/28/13 Time: 0945
Temperature Upon Receipt 2.6-4.7 °C
Custody Seals Intact? (Yes — circled) No

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

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7053.01

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Environmental Sample Administration Receipt Documentation Log

Client/Project: Exxon Mobil - Mayflower

Date of Receipt: 4/28/13

Time of Receipt: 0945

Source Code: 01

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	4.6	TB	WI	Y	B	
2	↓	2.7	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Annelise H. Owen / 210 **Date/Time:** 4/28/13 1225

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.