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Analysis Report

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 08, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/03/2013
Group Number: 1387367
SDG: PEH03
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(SURFACE)050313 Grab Surface Water	7043755
WS-002(SURFACE)050313 Grab Surface Water	7043756
WS-005(SURFACE)050313 Grab Surface Water	7043757
WS-008(SURFACE)050313 Grab Surface Water	7043758
WS-001(SURFACE)050313 Grab Surface Water	7043759
WS-001(0.5-1.0)050313 Grab Surface Water	7043760
WS-004(SURFACE)050313 Grab Surface Water	7043761
WS-004(0.5-1.0)050313 Grab Surface Water	7043762
WS-007(SURFACE)050313 Grab Surface Water	7043763
WS-007(0.5-1.0)050313 Grab Surface Water	7043764
WS-006(SURFACE)050313 Grab Surface Water	7043765
WS-006(0.5-1.0)050313 Grab Surface Water	7043766
WS-DUP-19-050313 Grab Surface Water	7043767
WS-TB31-050213 Water	7043768

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
ELECTRONIC	ARCADIS	Attn: Emily Leamer

COPY TO

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1387367

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 #: I131251AA (Sample number(s): 7043755-7043768 UNSPK: 7043755)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: tert-Butylbenzene, 1,4-Dichlorobenzene

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 2-Chlorotoluene, 4-Chlorotoluene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13123WAH026 (Sample number(s): 7043755-7043767)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7043761, 7043762, 7043763, 7043764, 7043766

Sample #s: 7043755, 7043756, 7043757, 7043758, 7043759, 7043760, 7043765, 7043767

The laboratory did not receive sufficient sample volume to perform

the method QC requirement for MS/MSD or MS/DUP analysis.

Sample #s: 7043761, 7043762, 7043763, 7043764, 7043766

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

SW-846 6010B, Metals

Batch #: 131231848001 (Sample number(s): 7043755-7043767 UNSPK: 7043761 BKG: 7043761)

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

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

Sample Description: WS-003(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043755
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 09:50 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

3S502 SDG#: PEH03-01

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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043755
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 09:50 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

3S502 SDG#: PEH03-01

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.7	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0230	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-003(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043755
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 09:50 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

3S502 SDG#: PEH03-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.20	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.64	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	0.0014 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	I131251AA	05/05/2013 13:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 13:21	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 16:03	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 20:25	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-002(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043756
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 10:30 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

2S502 SDG#: PEH03-02

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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043756
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 10:30 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

2S502 SDG#: PEH03-02

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
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.3	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0197	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-002(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043756
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 10:30 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

2S502 SDG#: PEH03-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.12	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.57	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 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	I131251AA	05/05/2013 15:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 15:05	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 16:33	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 20:37	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043757
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 11:45 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

5S502 SDG#: PEH03-03

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-005(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043757
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 11:45 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

5S502 SDG#: PEH03-03

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.5	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	0.0191	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-005(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043757
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 11:45 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

5S502 SDG#: PEH03-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.47	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.66	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	I131251AA	05/05/2013 15:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 15:26	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 17:03	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 20:41	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043758
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 12:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

8S502 SDG#: PEH03-04

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	4.4	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	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	0.2	J	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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043758
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 12:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

8S502 SDG#: PEH03-04

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	1.2		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.3	J	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	1.3		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.016	J	0.010	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	0.025	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	0.089		0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.089		0.010	0.051	1
08357	Naphthalene	91-20-3	0.099		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.014	J	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	97.0		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	0.0617		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1

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

Sample Description: WS-008(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043758
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 12:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

8S502 SDG#: PEH03-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	25.4	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	8.14	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0071 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	I131251AA	05/05/2013 15:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 15:47	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 17:33	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 20:45	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-001(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043759
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:40 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

1S502 SDG#: PEH03-05

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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043759
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:40 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

1S502 SDG#: PEH03-05

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.0	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	0.0446	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043759
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:40 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

1S502 SDG#: PEH03-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.54	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0058 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0055 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.99	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0051 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	0.0074	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	I131251AA	05/05/2013 16:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 16:08	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 18:02	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 20:50	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043760
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:45 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

10502 SDG#: PEH03-06

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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043760
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:45 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

10502 SDG#: PEH03-06

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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.8	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	0.0442	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043760
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:45 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

10502 SDG#: PEH03-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.51	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0045 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.94	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0039 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0069	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	I131251AA	05/05/2013 16:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 16:29	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 18:31	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 20:54	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-004(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043761
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:55 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

4S502 SDG#: PEH03-07

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	6.6	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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043761
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:55 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

4S502 SDG#: PEH03-07

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	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	0.1	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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.052	1
08357	Anthracene	120-12-7	N.D.		0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.052	1
08357	Chrysene	218-01-9	N.D.		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.		0.010	0.052	1
08357	Fluorene	86-73-7	N.D.		0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.052	1
08357	Pyrene	129-00-0	N.D.		0.010	0.052	1

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

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	42.8		0.064	0.20	1

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

Sample Description: WS-004(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043761
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:55 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

4S502 SDG#: PEH03-07

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**	
07035	Arsenic	7440-38-2	0.0083 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.250	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.71	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0359	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0330	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.72	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0278	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	0.0529	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	I131251AA	05/05/2013 16:50	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 16:50	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 22:15	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 19:56	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043762
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

40502 SDG#: PEH03-08

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	7.6		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	1.1	J	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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043762
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

40502 SDG#: PEH03-08

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	1.9		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	0.2	J	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	0.5		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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.052	1
08357	Anthracene	120-12-7	N.D.		0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.052	1
08357	Chrysene	218-01-9	N.D.		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.		0.010	0.052	1
08357	Fluorene	86-73-7	N.D.		0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.011	J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.052	1
08357	Pyrene	129-00-0	N.D.		0.010	0.052	1

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

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	43.7		0.064	0.20	1

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

Sample Description: WS-004(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043762
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

40502 SDG#: PEH03-08

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	0.0111 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.253	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00058 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.99	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0340	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0319	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0276	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	0.0506	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	I131251AA	05/05/2013 17:11	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 17:11	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 22:44	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 20:58	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-007(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043763
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:20 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

7S502 SDG#: PEH03-09

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	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-007(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043763
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:20 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

7S502 SDG#: PEH03-09

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	0.1	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	0.021	J	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	0.016	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	0.034	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	0.13		0.010	0.051	1
08357	Fluorene	86-73-7	N.D.		0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.075		0.010	0.051	1

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

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	39.5		0.064	0.20	1

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

Sample Description: WS-007(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043763
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:20 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

7S502 SDG#: PEH03-09

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	0.0100 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.261	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00052 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.46	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0357	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0326	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.67	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0293	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	0.0525	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00012 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	I131251AA	05/05/2013 17:31	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 17:31	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 23:13	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 21:02	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043764
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:25 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

70502 SDG#: PEH03-10

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

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

Sample Description: WS-007(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043764
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:25 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

70502 SDG#: PEH03-10

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	0.3	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.015	J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.053	1
08357	Anthracene	120-12-7	0.031	J	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.031	J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.027	J	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.084		0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.016	J	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.030	J	0.011	0.053	1
08357	Chrysene	218-01-9	0.096		0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	1
08357	Fluoranthene	206-44-0	0.30		0.011	0.053	1
08357	Fluorene	86-73-7	0.014	J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.023	J	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.		0.032	0.053	1
08357	Phenanthrene	85-01-8	0.052	J	0.032	0.053	1
08357	Pyrene	129-00-0	0.19		0.011	0.053	1

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

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	39.0		0.064	0.20	1

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

Sample Description: WS-007(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043764
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:25 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

70502 SDG#: PEH03-10

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	0.0101 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.250	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.19	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0283	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0314	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.11	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0244	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	0.0428	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00013 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	I131251AA	05/05/2013 18:55	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 18:55	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/07/2013 23:43	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 21:06	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-006(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043765
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

6S502 SDG#: PEH03-11

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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043765
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

6S502 SDG#: PEH03-11

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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.5	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0216	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-006(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043765
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:00 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

6S502 SDG#: PEH03-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	3.68	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.77	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	0.0028 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	I131251AA	05/05/2013 17:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 17:52	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/08/2013 00:12	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 21:10	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043766
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:05 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

60502 SDG#: PEH03-12

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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043766
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:05 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

60502 SDG#: PEH03-12

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	0.052	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	0.019 J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.017 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.061	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.016 J	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	0.065	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	0.062	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1

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

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

Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	26.0	0.064	0.20	1

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

Sample Description: WS-006(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043766
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:05 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

60502 SDG#: PEH03-12

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.410	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.72	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0032 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.85	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0034 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0013 J	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	I131251AA	05/05/2013 18:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 18:13	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/08/2013 00:41	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 21:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 06:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-DUP-19-050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043767
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

D1902 SDG#: PEH03-13FD

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	4.7	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	0.6		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	0.2	J	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-19-050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043767
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

D1902 SDG#: PEH03-13FD

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	1.2		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.3	J	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	1.4		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.017	J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.053	1
08357	Anthracene	120-12-7	N.D.		0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.053	1
08357	Chrysene	218-01-9	N.D.		0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.		0.011	0.053	1
08357	Fluorene	86-73-7	0.027	J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.090		0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.093		0.011	0.053	1
08357	Naphthalene	91-20-3	0.10		0.032	0.053	1
08357	Phenanthrene	85-01-8	0.032	J	0.032	0.053	1
08357	Pyrene	129-00-0	0.013	J	0.011	0.053	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	92.8		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	0.0576		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1

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

Sample Description: WS-DUP-19-050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043767
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 by AD

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

D1902 SDG#: PEH03-13FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01750	Calcium	7440-70-2	24.3	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0012 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.77	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0068 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	I131251AA	05/05/2013 18:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 18:34	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13123WAH026	05/08/2013 01:11	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13123WAH026	05/04/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256001	05/04/2013 07:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131231848001	05/03/2013 21:27	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131235713001	05/04/2013 07:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131231848001	05/03/2013 11:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131235713001	05/03/2013 15:45	Nelli S Markaryan	1

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

Sample Description: WS-TB31-050213 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043768
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

T3102 SDG#: PEH03-14TB*

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-TB31-050213 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7043768
LLI Group # 1387367
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013

Submitted: 05/03/2013 09:30
Reported: 05/08/2013 10:17

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

T3102 SDG#: PEH03-14TB*

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	I131251AA	05/05/2013 11:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131251AA	05/05/2013 11:57	Jason M Long	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1387367
Reported: 05/08/13 at 10:17 AM

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: I131251AA	Sample number(s): 7043755-7043768								
Acetone	N.D.	3.0	5.0	ug/l	103		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	102		61-130		
Benzene	N.D.	0.1	0.5	ug/l	107		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	113		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	105		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	103		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	102		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	98		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	114		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	118		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	121*		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	104		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	113		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	94		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	105		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	92		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	108		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	102		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	112		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	114		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	117		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	115*		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	90		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	113		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	110		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	113		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	102		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	106		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	101		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	102		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	107		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: 1387367
Reported: 05/08/13 at 10:17 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	116		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	117		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	105		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	104		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	109		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	117		80-120		
Styrene	N.D.	0.1	0.5	ug/l	119		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	116		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	112		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	120		65-131		
Toluene	N.D.	0.1	0.5	ug/l	113		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	109		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	111		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	116		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	108		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	112		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	117		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	117		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	97		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	115		80-120		
Batch number: 13123WAH026	Sample number(s): 7043755-7043767								
Acenaphthene	N.D.	0.010	0.050	ug/l	98	101	65-124	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	104	107	72-113	4	30
Anthracene	N.D.	0.010	0.050	ug/l	97	97	70-117	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	92	94	75-115	3	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	90	90	72-120	0	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	95	99	74-130	4	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	80	82	63-121	2	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	95	100	74-118	5	30
Chrysene	N.D.	0.010	0.050	ug/l	95	97	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	85	84	66-122	1	30
Fluoranthene	N.D.	0.010	0.050	ug/l	99	104	73-116	5	30
Fluorene	N.D.	0.010	0.050	ug/l	100	103	74-115	3	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	83	83	66-122	0	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105	108	72-114	3	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	101	105	74-119	3	30
Naphthalene	N.D.	0.030	0.050	ug/l	100	104	67-118	4	30
Phenanthrene	N.D.	0.030	0.050	ug/l	97	102	72-109	5	30
Pyrene	N.D.	0.010	0.050	ug/l	95	99	71-116	4	30
Batch number: 131231848001	Sample number(s): 7043755-7043767								
Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	104		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	103		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	106		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	107		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	100		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	105		90-110		

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1387367
Reported: 05/08/13 at 10:17 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131235713001	Sample number(s): 7043755-7043767								
Mercury	N.D.	0.00007 0	0.00020	mg/l	93		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: I131251AA	Sample number(s): 7043755-7043768 UNSPK: 7043755								
Acetone	100	111	57-163	10	30				
Allyl Chloride	107	114	67-139	6	30				
Benzene	115	119	87-126	4	30				
Bromobenzene	115	120	80-123	4	30				
Bromochloromethane	107	112	82-125	5	30				
Bromodichloromethane	109	113	82-133	3	30				
Bromoform	104	109	60-138	5	30				
Bromomethane	97	102	41-145	5	30				
2-Butanone	106	118	63-146	11	30				
n-Butylbenzene	122	128	83-131	5	30				
sec-Butylbenzene	126	132*	84-128	5	30				
tert-Butylbenzene	127	132	84-135	4	30				
Carbon Tetrachloride	117	120	81-148	3	30				
Chlorobenzene	119	124	78-133	4	30				
Chloroethane	96	102	70-139	6	30				
Chloroform	113	115	86-136	2	30				
Chloromethane	89	95	55-152	6	30				
2-Chlorotoluene	121*	126*	81-120	4	30				
4-Chlorotoluene	119	125*	82-119	5	30				
1,2-Dibromo-3-chloropropane	103	113	43-143	10	30				
Dibromochloromethane	105	110	79-125	4	30				
1,2-Dibromoethane	114	119	84-127	4	30				
Dibromomethane	108	112	83-126	4	30				
1,2-Dichlorobenzene	117	122*	83-117	5	30				
1,3-Dichlorobenzene	120*	126*	81-118	5	30				
1,4-Dichlorobenzene	118	123*	79-120	4	30				
Dichlorodifluoromethane	83	83	28-136	0	30				
1,1-Dichloroethane	115	117	88-136	2	30				
1,2-Dichloroethane	108	111	82-135	3	30				
1,1-Dichloroethene	123	126	83-150	3	30				
cis-1,2-Dichloroethene	116	119	82-129	3	30				
trans-1,2-Dichloroethene	118	122	88-127	3	30				
Dichlorofluoromethane	125	131	59-176	5	30				
1,2-Dichloropropane	115	120	91-126	4	30				
1,3-Dichloropropane	115	119	80-127	3	30				
2,2-Dichloropropane	112	116	80-134	4	30				
1,1-Dichloropropene	119	122	86-139	2	30				
cis-1,3-Dichloropropene	104	108	74-132	4	30				
trans-1,3-Dichloropropene	99	104	71-128	5	30				
Ethyl ether	103	108	67-127	4	30				

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1387367
Reported: 05/08/13 at 10:17 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	122	126	80-140	4	30				
Freon 113	118	116	87-158	2	30				
Hexachlorobutadiene	119	123	65-128	3	30				
Isopropylbenzene	124	130	81-133	4	30				
p-Isopropyltoluene	126*	131*	84-124	5	30				
Methyl Tertiary Butyl Ether	105	110	82-132	5	30				
4-Methyl-2-Pentanone	104	110	69-149	6	30				
Methylene Chloride	115	119	84-122	3	30				
n-Propylbenzene	124	130	79-131	4	30				
Styrene	124	128	63-151	4	30				
1,1,1,2-Tetrachloroethane	115	120	87-126	4	30				
1,1,2,2-Tetrachloroethane	115	121	75-131	5	30				
Tetrachloroethene	123	127	75-129	3	30				
Tetrahydrofuran	110	121	56-154	10	30				
Toluene	120	126	83-127	5	30				
1,2,3-Trichlorobenzene	110	117	73-125	6	30				
1,2,4-Trichlorobenzene	113	120	77-120	6	30				
1,1,1-Trichloroethane	114	117	85-140	2	30				
1,1,2-Trichloroethane	117	121	85-129	4	30				
Trichloroethene	118	120	85-131	2	30				
Trichlorofluoromethane	103	105	67-161	2	30				
1,2,3-Trichloropropane	110	115	76-120	4	30				
1,2,4-Trimethylbenzene	122	128*	87-126	5	30				
1,3,5-Trimethylbenzene	123	128	89-129	4	30				
Vinyl Chloride	99	103	65-151	4	30				
Xylene (Total)	122	128	81-137	4	30				
Batch number: 131231848001	Sample number(s): 7043755-7043767 UNSPK: 7043761 BKG: 7043761								
Arsenic	101	100	81-123	2	20	0.0083 J	0.0125 J	40* (1)	20
Barium	104	105	78-118	1	20	0.250	0.259	4	20
Cadmium	101	101	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	94	98	81-118	1	20	7.71	7.65	1	20
Chromium	112	112	81-120	0	20	0.0359	0.0383	6 (1)	20
Lead	101	101	75-125	0	20	0.0330	0.0342	4 (1)	20
Magnesium	157*	158*	75-125	0	20	5.72	6.05	6	20
Nickel	105	105	86-115	0	20	0.0278	0.0308	10 (1)	20
Selenium	100	97	75-125	4	20	N.D.	N.D.	0 (1)	20
Silver	101	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	110	110	90-111	0	20	0.0529	0.0559	6	20
Batch number: 131235713001	Sample number(s): 7043755-7043767 UNSPK: P043907 BKG: P043907								
Mercury	92	92	80-120	1	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge

*- 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: 1387367
Reported: 05/08/13 at 10:17 AM

Surrogate Quality Control

Batch number: I131251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7043755	99	106	100	98
7043756	97	101	100	95
7043757	97	101	100	96
7043758	97	102	101	98
7043759	98	103	100	97
7043760	98	104	100	97
7043761	97	104	100	98
7043762	97	100	101	98
7043763	97	101	100	97
7043764	97	103	100	97
7043765	98	102	100	95
7043766	99	99	100	95
7043767	97	102	100	98
7043768	96	102	100	96
Blank	96	100	100	96
LCS	96	101	102	99
MS	97	104	102	100
MSD	97	101	102	100
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13123WAH026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7043755	92	86	89
7043756	89	81	89
7043757	86	84	83
7043758	93	106	92
7043759	76	65	76
7043760	76	68	76
7043761	46*	23*	55*
7043762	35*	22*	41*
7043763	22*	14*	25*
7043764	32*	17*	40*
7043765	86	77	82
7043766	71	59*	71
7043767	94	88	90
Blank	92	102	90
LCS	88	99	90
LCSD	93	103	95
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 # 1387367 For Lancaster Laboratories use only Sample # 7043755-68

Instructions on reverse side correspond with circled numbers.

Pg #1

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 / Angie Parronello (734)604-1707

4 Matrix

Sediment ☐ Soil ☐ Ground ☐ Potable ☐ Surface ☒ NPDES ☐ Water ☒ Air ☐ Oil ☐

5 Analyses Requested

Preservation Code: H | | N

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOC 8260 B	PAH 8270 SIM	6 RCRA Metals- Ni, V, Cu, Mg, Mn
WS-003 (Surface) 050213	5/2/13	950	X		6	X	X	X
WS-002 (Surface) 050213		1030			6	X	X	X
WS-005 (Surface) 050213		1145			6	X	X	X
WS-008 (Surface) 050213		1200			6	X	X	X
WS-001 (Surface) 050213		1340			6	X	X	X
WS-001 (0.5-1.0) 050213		1345			6	X	X	X
WS-004 (Surface) 050213		1355			6	X	X	X
WS-004 (0.5-1.0) 050213		1400			6	X	X	X
WS-007 (Surface) 050213		1420			6	X	X	X
WS-007 (0.5-1.0) 050213		1425			6	X	X	X
WS-006 (Surface) 050213		1500			6	X	X	X
WS-006 (0.5-1.0) 050213		1505			6	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 - Lynda Mott - ARCADIS

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
Aaron Dayton	5-2-13	1730			9
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ___ FedEx ___ Other ___			Received by	Date	Time
			Pat Gh	5/3/13	0930

Temperature Upon Receipt 1.0-3.8 °C

Custody Seals Intact? Yes No

ExxonMobil Analysis Request/Chain of Custody

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Acct. # 14731 Group # 1557362 For Lancaster Laboratories use only Sample # 7043755-68

Instructions on reverse side correspond with circled numbers.

Pg #2

1 Client Information

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower, AR

ExxonMobil PM: Scott Burhoe

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Barrick

Consultant Phone #: 914-302-6749

Sampler: Aaron Dayton / Angie Parnell (734) 604-1707

SCR#:

4 Matrix

Soil ☐ Sediment ☐ Water ☒ Surface ☒ Ground ☐ Potable ☐ NPDES ☐ Oil ☐ Air ☐

5 Analyses Requested

Preservation Code

Preservation Codes

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

6 Remarks

Drain Analyst Questions - Lynn M. - ARCADIS

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOC 8260 B (H)	PAH 8270 SIM	8 RCRA Metals - N, V, Cu, Mg, Mn, Ni (N)
WS-DUP-14-050213	5/2/13	—	X		6	X	X	X
WS-TB 31-050213	↓	—	↓		2	X	✱	✱

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
Aaron Dayton	5/2/13	1730			
Relinquished by Commercial Carrier: UPS ___ FedEx ___ Other ___			Received by: Pat Yu	5/3/13	0930

9

Temperature Upon Receipt 1.0-3.5 °C

Custody Seals Intact? Yes No

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Environmental Sample Administration Receipt Documentation Log

1387367

Client/Project: Mayflower

Date of Receipt: 5/3/13

Time of Receipt: 0930

Source Code: SO

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	2783	1.0	TB	WI	y	B	
2	↓	3.8	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Pat Gh 3472 **Date/Time:** 5/3/13 1005

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	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.