ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

April 25, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/24/2013
Group Number: 1385063
SDG: PEG64
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(SURFACE)042313 Grab Surface Water	7032519
WS-002(SURFACE)042313 Grab Surface Water	7032520
WS-BKG-001(SURFACE)042313 Grab Surface Water	7032521
WS-005(SURFACE)042313 Grab Surface Water	7032522
WS-008(SURFACE)042313 Grab Surface Water	7032523
WS-008(SURFACE)MS042313 Grab Surface Water	7032524
WS-008(SURFACE)MSD042313 Grab Surface Water	7032525
WS-008(SURFACE)DUP042313 Grab Surface Water	7032526
WS-001(SURFACE)042313 Grab Surface Water	7032527
WS-001(0.5-1.0)0042313 Grab Surface Water	7032528
WS-004(SURFACE)042313 Grab Surface Water	7032529
WS-004(0.5-1.0)042313 Grab Surface Water	7032530
WS-007(SURFACE)042313 Grab Surface Water	7032531
WS-007(0.5-1.0)042313 Grab Surface Water	7032532
WS-006(SURFACE)042313 Grab Surface Water	7032533
WS-006(0.5-1.0)042313 Grab Surface Water	7032534
WS-TB20-042313 Water	7032535

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 COPY TO	ARCADIS	Attn: Emily Leamer

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1385063

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13114WAD026 (Sample number(s): 7032519-7032525, 7032527-7032534 UNSPK: 7032523)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7032527, 7032528, 7032529, 7032530, 7032531, 7032532

Sample #s: 7032527, 7032528, 7032529, 7032530, 7032531, 7032532

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 #: 131141848001 (Sample number(s): 7032519-7032534 UNSPK: 7032523 BKG: 7032523)

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

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

Sample Description: WS-003(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032519
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 08:15 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23003 SDG#: PEG64-01

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)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032519
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 08:15 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23003 SDG#: PEG64-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0210	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.09	0.0640	0.200	1

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

Sample Description: WS-003(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032519
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 08:15 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23003 SDG#: PEG64-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.56	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	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	I131141AA	04/24/2013 19:20	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 19:20	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 01:14	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 19:50	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-002(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032520
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 08:40 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23002 SDG#: PEG64-02

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)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032520
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 08:40 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23002 SDG#: PEG64-02

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	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0197	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.14	0.0640	0.200	1

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

Sample Description: WS-002(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032520
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 08:40 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23002 SDG#: PEG64-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.53	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	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	I131141AA	04/24/2013 19:41	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 19:41	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 01:41	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 19:55	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032521
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 09:10 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23BKG SDG#: PEG64-03

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

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

Sample Description: WS-BKG-001(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032521
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 09:10 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23BKG SDG#: PEG64-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.012 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	26.4	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0362	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.17	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032521
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 09:10 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23BKG SDG#: PEG64-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.06	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0029 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	I131141AA	04/24/2013 20:02	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 20:02	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 02:08	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:09	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032522
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 09:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23005 SDG#: PEG64-04

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

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

Sample Description: WS-005(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032522
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 09:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23005 SDG#: PEG64-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	0.011 J	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.3	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	0.0230	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.43	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032522
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 09:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23005 SDG#: PEG64-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0018 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131141AA	04/24/2013 20:22	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 20:22	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 02:35	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:13	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032523
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	Acetone	67-64-1	N.D.		3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	0.2	J	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	0.2	J	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	0.8		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

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

Sample Description: WS-008(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032523
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.4	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	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	0.4	J	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	N.D.		0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	0.011	J	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.		0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	0.017	J	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	35.1		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	0.0337		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	9.61		0.0640	0.200	1

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

Sample Description: WS-008(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032523
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0014 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.70	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0023 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	I131141AA	04/24/2013 18:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 18:17	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 03:02	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 19:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)MS042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032524
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	48	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.7	0.1	0.5	1
02898	Benzene	71-43-2	5.2	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.6	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.9	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.2	0.1	0.5	1
02898	Bromoform	75-25-2	4.8	0.1	0.5	1
02898	Bromomethane	74-83-9	3.9	0.1	0.5	1
02898	2-Butanone	78-93-3	37	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.9	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.9	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.7	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.2	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.9	0.1	0.5	1
02898	Chloroethane	75-00-3	4.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.8	0.1	0.5	1
02898	Chloromethane	74-87-3	3.8	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.7	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.8	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.8	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.9	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.8	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.8	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.8	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.8	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.0	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.2	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.9	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.1	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	4.9	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.1	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.8	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.1	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.8	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.5	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.5	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.9	0.1	0.5	1
02898	Freon 113	76-13-1	5.2	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.7	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.9	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.1	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.6	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	25	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.1	0.2	0.5	1

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

Sample Description: WS-008(SURFACE)MS042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032524
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	4.9	0.1	0.5	1
02898	Styrene	100-42-5	4.7	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.9	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.9	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.8	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	2.0	5.0	1
02898	Toluene	108-88-3	5.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.6	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.6	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.1	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.0	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.1	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.5	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.9	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	15	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	1.1	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	1.0	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.93	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.010	0.051	1
08357	Chrysene	218-01-9	1.0	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.86	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	1.1	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.95	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.1	0.030	0.051	1
08357	Pyrene	129-00-0	1.2	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	57.0	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.149	0.0068	0.0200	1
07046	Barium	7440-39-3	2.08	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0522	0.00036	0.0050	1
01750	Calcium	7440-70-2	14.9	0.0640	0.200	1

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

Sample Description: WS-008(SURFACE)MS042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032524
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.209	0.0011	0.0150	1
07055	Lead	7439-92-1	0.159	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.82	0.0606	0.100	1
07061	Nickel	7440-02-0	0.536	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.159	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0469	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.535	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00094	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	I131141AA	04/24/2013 18:59	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 18:59	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 03:29	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 19:36	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)MSD042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032525
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	41	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.4	0.1	0.5	1
02898	Benzene	71-43-2	4.9	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.3	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.6	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.0	0.1	0.5	1
02898	Bromoform	75-25-2	4.7	0.1	0.5	1
02898	Bromomethane	74-83-9	3.7	0.1	0.5	1
02898	2-Butanone	78-93-3	32	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.6	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.6	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.3	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.1	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.6	0.1	0.5	1
02898	Chloroethane	75-00-3	3.8	0.1	0.5	1
02898	Chloroform	67-66-3	5.6	0.1	0.5	1
02898	Chloromethane	74-87-3	3.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.4	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.4	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.4	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.8	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.5	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.7	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.5	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.5	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.5	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.7	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.8	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.1	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.9	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.7	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	4.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.2	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	4.8	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.6	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.6	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	4.8	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.5	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.2	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.2	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.7	0.1	0.5	1
02898	Freon 113	76-13-1	5.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.7	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.7	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.4	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.9	0.2	0.5	1

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

Sample Description: WS-008(SURFACE)MSD042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032525
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	4.6	0.1	0.5	1
02898	Styrene	100-42-5	4.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.7	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.6	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	21	2.0	5.0	1
02898	Toluene	108-88-3	4.9	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.2	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.3	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	4.9	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.7	0.1	0.5	1
02898	Trichloroethene	79-01-6	4.8	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.6	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.6	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.5	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	3.9	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.051	1
08357	Anthracene	120-12-7	1.0	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.91	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.98	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.80	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.96	0.010	0.051	1
08357	Chrysene	218-01-9	0.92	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.72	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	1.0	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.051	1
08357	Naphthalene	91-20-3	1.0	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.030	0.051	1
08357	Pyrene	129-00-0	1.1	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	56.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.151	0.0068	0.0200	1
07046	Barium	7440-39-3	2.04	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0519	0.00036	0.0050	1
01750	Calcium	7440-70-2	14.6	0.0640	0.200	1

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

Sample Description: WS-008(SURFACE)MSD042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032525
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.206	0.0011	0.0150	1
07055	Lead	7439-92-1	0.159	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.78	0.0606	0.100	1
07061	Nickel	7440-02-0	0.533	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.154	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0460	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.526	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00096	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	I131141AA	04/24/2013 18:38	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 18:38	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 03:56	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 19:40	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)DUP042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032526
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 10:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23008 SDG#: PEG64-05DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	34.5	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	0.0333	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.43	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.66	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0029 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 19:31	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032527
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:00 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23011 SDG#: PEG64-06

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(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032527
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:00 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23011 SDG#: PEG64-06

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	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

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

Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.3	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0304	0.00033	0.0050	1

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

Sample Description: WS-001(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032527
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:00 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23011 SDG#: PEG64-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.69	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0013 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.72	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0029 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0029 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131141AA	04/24/2013 20:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 20:43	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 04:24	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)0042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032528
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:05 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23012 SDG#: PEG64-07

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	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)0042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032528
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:05 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23012 SDG#: PEG64-07

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	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.014 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.017 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.1	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0561	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)0042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032528
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:05 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23012 SDG#: PEG64-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.57	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0014 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.74	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0026 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0030 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131141AA	04/24/2013 21:04	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 21:04	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 04:51	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:23	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032529
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23041 SDG#: PEG64-08

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	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-004(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032529
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23041 SDG#: PEG64-08

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	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	0.019 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.025 J	0.010	0.052	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	32.1	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0074 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.188	0.00033	0.0050	1

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

Sample Description: WS-004(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032529
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:30 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23041 SDG#: PEG64-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.08	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0205	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0200	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.11	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0187	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	0.0338	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	I131141AA	04/24/2013 21:25	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 21:25	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 05:18	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:27	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032530
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:35 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23042 SDG#: PEG64-09

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	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-004(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032530
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:35 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23042 SDG#: PEG64-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	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	0.014 J	0.011	0.053	1

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

Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	31.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.183	0.00033	0.0050	1

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

Sample Description: WS-004(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032530
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 11:35 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23042 SDG#: PEG64-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.96	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0191	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0196	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.96	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0183	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	0.0312	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	I131141AA	04/24/2013 21:46	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 21:46	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 05:45	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:32	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032531
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 12:50 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23071 SDG#: PEG64-10

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(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032531
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 12:50 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23071 SDG#: PEG64-10

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	0.1	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	0.6		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	0.013	J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.026	J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.014	J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.064		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.015	J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.022	J	0.010	0.051	1
08357	Chrysene	218-01-9	0.075		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	0.22		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	0.019	J	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	0.048	J	0.030	0.051	1
08357	Pyrene	129-00-0	0.17		0.010	0.051	1

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	37.8		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0071	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.250		0.00033	0.0050	1

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

Sample Description: WS-007(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032531
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 12:50 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23071 SDG#: PEG64-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.69	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0292	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0308	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.12	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0263	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	0.0470	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	I131141AA	04/24/2013 22:07	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 22:07	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 06:12	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:37	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032532
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 12:55 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23072 SDG#: PEG64-11

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

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

Sample Description: WS-007(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032532
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 12:55 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23072 SDG#: PEG64-11

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	0.3	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.1	J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.2	J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.6		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	0.013	J	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	0.034	J	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	0.015	J	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	0.014	J	0.010	0.050	1
08357	Chrysene	218-01-9	0.033	J	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.050	1
08357	Fluoranthene	206-44-0	0.081		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	0.020	J	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	0.066		0.010	0.050	1

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	34.9		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0073	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.213		0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032532
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 12:55 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23072 SDG#: PEG64-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.32	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0187	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0240	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.04	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0186	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	0.0326	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	I131141AA	04/24/2013 22:28	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 22:28	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 06:39	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:41	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 08:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-006(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032533
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 13:10 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23061 SDG#: PEG64-12

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(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032533
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 13:10 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23061 SDG#: PEG64-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.089	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.3	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	0.0205	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.65	0.0640	0.200	1

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

Sample Description: WS-006(SURFACE)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032533
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 13:10 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23061 SDG#: PEG64-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.75	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0026 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0030 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131141AA	04/24/2013 22:49	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 22:49	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 07:07	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:46	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 08:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032534
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 13:15 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23062 SDG#: PEG64-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	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)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032534
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 13:15 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23062 SDG#: PEG64-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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	0.012 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.6	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0220	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.74	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)042313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032534
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013 13:15 by AD

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23062 SDG#: PEG64-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0013 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0031 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0032 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	I131141AA	04/24/2013 23:10	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 23:10	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13114WAD026	04/25/2013 07:34	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13114WAD026	04/24/2013 18:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131156256014	04/25/2013 13:56	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131141848001	04/24/2013 20:51	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131145713001	04/25/2013 08:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131141848001	04/24/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131145713001	04/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-TB20-042313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032535
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23T20 SDG#: PEG64-14TB*

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-TB20-042313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7032535
LLI Group # 1385063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/23/2013

Submitted: 04/24/2013 09:30
Reported: 04/25/2013 14:07

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

23T20 SDG#: PEG64-14TB*

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	I131141AA	04/24/2013 17:35	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131141AA	04/24/2013 17:35	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1385063
Reported: 04/25/13 at 02:07 PM

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: I131141AA	Sample number(s): 7032519-7032525,7032527-7032535								
Acetone	N.D.	3.0	5.0	ug/l	102		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	82		61-130		
Benzene	N.D.	0.1	0.5	ug/l	87		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	84		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	90		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	92		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	91		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	73		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	88		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	84		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	84		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	80		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	89		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	87		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	73		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	91		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	68		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	83		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	83		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	89		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	92		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	88		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	92		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	88		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	86		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	86		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	67		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	89		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	96		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	88		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	87		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	88		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	102		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	90		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	90		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	82		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	85		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	85		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	81		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	86		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	86		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	85		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	79		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: 1385063
Reported: 04/25/13 at 02:07 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	85		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	83		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	85		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	93		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	91		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	85		80-120		
Styrene	N.D.	0.1	0.5	ug/l	85		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	89		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	94		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	81		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	85		65-131		
Toluene	N.D.	0.1	0.5	ug/l	84		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	82		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	81		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	87		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	92		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	88		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	83		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	94		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	84		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	84		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	71		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	85		80-120		
Batch number: 13114WAD026	Sample number(s): 7032519-7032525,7032527-7032534								
Acenaphthene	N.D.	0.010	0.050	ug/l	103		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	107		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	105		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	106		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	108		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	117		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	104		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	114		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	111		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	97		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	110		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	105		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	101		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	105		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	105		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	112		71-116		
Batch number: 131141848001	Sample number(s): 7032519-7032534								
Arsenic	N.D.	0.0068	0.0200	mg/l	97		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	102		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	104		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	92		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	103		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: 1385063
Reported: 04/25/13 at 02:07 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131145713001	Sample number(s): 7032519-7032534								
Mercury	N.D.	0.00007 0	0.00020	mg/l	95		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: I131141AA	Sample number(s): 7032519-7032525,7032527-7032535 UNSPK: 7032523								
Acetone	128	110	57-163	15	30				
Allyl Chloride	94	88	67-139	7	30				
Benzene	99	94	87-126	5	30				
Bromobenzene	93	86	80-123	8	30				
Bromochloromethane	98	93	82-125	5	30				
Bromodichloromethane	101	98	82-133	3	30				
Bromoform	97	93	60-138	4	30				
Bromomethane	79	75	41-145	5	30				
2-Butanone	98	86	63-146	14	30				
n-Butylbenzene	98	92	83-131	7	30				
sec-Butylbenzene	98	92	84-128	7	30				
tert-Butylbenzene	93	86	84-135	8	30				
Carbon Tetrachloride	105	103	81-148	2	30				
Chlorobenzene	98	92	78-133	6	30				
Chloroethane	81	77	70-139	6	30				
Chloroform	100	96	86-136	4	30				
Chloromethane	75	71	55-152	5	30				
2-Chlorotoluene	93	88	81-120	6	30				
4-Chlorotoluene	94	87	82-119	8	30				
1,2-Dibromo-3-chloropropane	96	89	43-143	9	30				
Dibromochloromethane	101	96	79-125	4	30				
1,2-Dibromoethane	96	90	84-127	6	30				
Dibromomethane	99	95	83-126	4	30				
1,2-Dichlorobenzene	96	89	83-117	7	30				
1,3-Dichlorobenzene	97	90	81-118	7	30				
1,4-Dichlorobenzene	96	89	79-120	7	30				
Dichlorodifluoromethane	76	73	28-136	4	30				
1,1-Dichloroethane	101	96	88-136	4	30				
1,2-Dichloroethane	105	102	82-135	2	30				
1,1-Dichloroethene	105	99	83-150	6	30				
cis-1,2-Dichloroethene	99	94	82-129	5	30				
trans-1,2-Dichloroethene	102	97	88-127	5	30				
Dichlorofluoromethane	99	104	59-176	5	30				
1,2-Dichloropropane	101	96	91-126	5	30				
1,3-Dichloropropane	97	92	80-127	6	30				
2,2-Dichloropropane	96	92	80-134	4	30				
1,1-Dichloropropene	101	97	86-139	4	30				
cis-1,3-Dichloropropene	95	90	74-132	5	30				
trans-1,3-Dichloropropene	90	84	71-128	6	30				
Ethyl ether	90	84	67-127	7	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: 1385063
Reported: 04/25/13 at 02:07 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	99	93	80-140	6	30				
Freon 113	104	100	87-158	4	30				
Hexachlorobutadiene	95	88	65-128	7	30				
Isopropylbenzene	98	93	81-133	5	30				
p-Isopropyltoluene	101	95	84-124	7	30				
Methyl Tertiary Butyl Ether	92	87	82-132	6	30				
4-Methyl-2-Pentanone	99	95	69-149	5	30				
Methylene Chloride	101	97	84-122	4	30				
n-Propylbenzene	98	91	79-131	7	30				
Styrene	95	90	63-151	6	30				
1,1,1,2-Tetrachloroethane	97	93	87-126	4	30				
1,1,2,2-Tetrachloroethane	99	91	75-131	8	30				
Tetrachloroethene	96	91	75-129	5	30				
Tetrahydrofuran	97	85	56-154	14	30				
Toluene	96	90	83-127	6	30				
1,2,3-Trichlorobenzene	91	85	73-125	8	30				
1,2,4-Trichlorobenzene	92	85	77-120	8	30				
1,1,1-Trichloroethane	102	99	85-140	3	30				
1,1,2-Trichloroethane	101	94	85-129	7	30				
Trichloroethene	101	97	85-131	5	30				
Trichlorofluoromethane	91	91	67-161	1	30				
1,2,3-Trichloropropane	99	93	76-120	7	30				
1,2,4-Trimethylbenzene	98	90	87-126	8	30				
1,3,5-Trimethylbenzene	97	90	89-129	7	30				
Vinyl Chloride	81	77	65-151	5	30				
Xylene (Total)	97	91	81-137	5	30				
Batch number: 13114WAD026	Sample number(s): 7032519-7032525,7032527-7032534 UNSPK: 7032523								
Acenaphthene	102	99	59-127	3	30				
Acenaphthylene	106	102	33-146	4	30				
Anthracene	104	103	69-119	1	30				
Benzo(a)anthracene	110	102	67-124	8	30				
Benzo(a)pyrene	100	90	64-123	11	30				
Benzo(b)fluoranthene	107	97	61-133	11	30				
Benzo(g,h,i)perylene	92	78	36-138	16	30				
Benzo(k)fluoranthene	105	95	59-128	11	30				
Chrysene	98	91	62-118	8	30				
Dibenz(a,h)anthracene	84	71	32-141	17	30				
Fluoranthene	107	103	65-123	4	30				
Fluorene	105	102	69-124	3	30				
Indeno(1,2,3-cd)pyrene	93	79	29-143	17	30				
1-Methylnaphthalene	110	106	67-117	4	30				
2-Methylnaphthalene	107	103	71-126	4	30				
Naphthalene	107	103	58-131	4	30				
Phenanthrene	104	100	67-117	3	30				
Pyrene	113	107	59-125	5	30				
Batch number: 131141848001	Sample number(s): 7032519-7032534 UNSPK: 7032523 BKG: 7032523								
Arsenic	99	101	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	102	100	78-118	2	20	0.0337	0.0333	1	20
Cadmium	104	104	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	132*	125*	81-118	2	20	9.61	9.43	2	20

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1385063
Reported: 04/25/13 at 02:07 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	104	102	81-120	1	20	0.0014 J	0.0018 J	22* (1)	20
Lead	106	106	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	106	104	75-125	1	20	2.70	2.66	2	20
Nickel	106	106	86-115	1	20	0.0038 J	0.0038 J	2 (1)	20
Selenium	106	103	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	94	92	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	106	105	90-111	2	20	0.0023 J	0.0029 J	20 (1)	20
Batch number: 131145713001	Sample number(s): 7032519-7032534 UNSPK: 7032523 BKG: 7032523								
Mercury	94	96	80-120	2	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge
Batch number: I131141AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7032519	101	111	97	98
7032520	101	105	98	97
7032521	101	108	96	97
7032522	102	106	97	98
7032523	102	110	97	100
7032524	100	106	98	101
7032525	102	109	97	102
7032527	102	109	96	98
7032528	103	107	96	99
7032529	102	105	96	98
7032530	103	109	96	98
7032531	102	106	96	100
7032532	101	106	97	99
7032533	102	109	96	98
7032534	102	106	97	97
7032535	101	104	99	97
Blank	101	104	98	97
LCS	101	105	99	101
MS	100	106	98	101
MSD	102	109	97	102
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13114WAD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7032519	98	78	93

*- 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: 1385063
Reported: 04/25/13 at 02:07 PM

Surrogate Quality Control

7032520	98	77	92
7032521	98	92	90
7032522	100	82	96
7032523	102	96	95
7032524	102	101	99
7032525	99	91	96
7032527	82	59*	84
7032528	83	60*	84
7032529	43*	27*	49*
7032530	41*	18*	59
7032531	39*	19*	49*
7032532	32*	13*	45*
7032533	95	85	94
7032534	78	74	76
Blank	104	99	96
LCS	103	108	101
MS	102	101	99
MSD	99	91	96
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

Pg. 1

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Acct. # 14739 Group # 1383063 Sample # 7032519-35

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

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

SCR#:

4 Matrix

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

3 Grab / Composite

5 Analyses Requested — Preservation Code

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOC - 8260B (H)	PAH - 8270 SIM (H)	RCRA Metals + Hg (N)
WS-003 (surface) 042313	4/23/13	0845	X		6	X	X	X
WS-002 (surface) 042313		0840			6	X	X	X
WS-BKG-001 (surface) 042313		0910			6	X	X	X
WS-005 (surface) 042313		0950			6	X	X	X
WS-008 (surface) 042313		1030			6	X	X	X
WS-008 (surface) MS 042313		1030			6	X	X	X
WS-008 (surface) MSD 042313		1030			6	X	X	X
WS-001 (surface) 042313		1100			6	X	X	X
WS-001 (0.5-1.0) 042313		1105			6	X	X	X
WS-004 (surface) 042313		1130			6	X	X	X
WS-004 (0.5-1.0) 042313		1135			6	X	X	X
WS-007 (surface) 042313		1250			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: Lyndi Moh - 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
Joshua Olive	4/23/13	1700			
Relinquished by Commercial Carrier: UPS ___ FedEx ___ Other ___					
Temperature Upon Receipt 4.0-4.2 °C			Custody Seals Intact? Yes / No		

9

Received by	Date	Time
	4/24/13	0930

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

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ExxonMobil Analysis Request/Chain of Custody

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For Lancaster Laboratories use only
Acct. # 14739 Group # 1385063 Sample # 7032519-35
Instructions on reverse side correspond with circled numbers.

(B2)

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

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

⑤ Analyses Requested — Preservation Code: H (VOC 8260B), [blank] (PAH 8270 SIM), N (RCRA Metals + Ni, V, Cu, Mg...)

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

⑥ Remarks
Data Analysis questions: Lynn Mott - ARCADIS

② Sample Identification	Collected Date	Collected Time	③ Grab	Composite	Soil	Water	Oil	Total # of Containers	VOC 8260B	PAH 8270 SIM	RCRA Metals +Ni, V, Cu, Mg
~~WS-007 (Surface) 042313~~		~~1255~~									
WS-007 (0.5-1.0) 042313	4/23/13	1255	X			X		6	X	X	X
WS-006 (surface) 042313	|	1310	|			|		6	X	X	X
WS-006 (0.5-1.0) 042313	|	1315	|			|		6	X	X	X
WS-TB01-042313	|	—	|			|		2	X		

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

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

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

⑨

Relinquished by	Date	Time	Received by	Date	Time
Joshua Oliver	4/23/13	1700			

Relinquished by Commercial Carrier: UPS ____ FedEx (circled) ____ Other ________
Received by: [signature] Date 4/24/13 Time 0930

Temperature Upon Receipt 4.0-4.2 °C
Custody Seals Intact? (Yes — circled) No

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

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Environmental Sample Administration Receipt Documentation Log

1385063

Client/Project: ExxonMobil

Date of Receipt: 4/24/13

Time of Receipt: 0930

Source Code: 50

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	2737	4.0	TB	WI	Y	B	
2	↓	4.2	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

WS-003(Surface) time = 0820

WS-007(Surface) time = 1245

WS-007(0.5-1.0) time = 1250

Unpacker Signature/Emp#: [signature] 964 **Date/Time:** 4/24/13 0949

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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.