ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

April 16, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/15/2013
Group Number: 1382921
SDG: PEG32
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(SURFACE)041413 Grab Surface Water	7022452
WS-002(SURFACE)041413 Grab Surface Water	7022453
WS-BKG-001(SURFACE)041413 Grab Surface Water	7022454
WS-005(SURFACE)041413 Grab Surface Water	7022455
WS-008(SURFACE)041413 Grab Surface Water	7022456
WS-008(SURFACE)MS041413 Grab Surface Water	7022457
WS-008(SURFACE)MSD041413 Grab Surface Water	7022458
WS-008(SURFACE)DUP041413 Grab Surface Water	7022459
WS-001(SURFACE)041413 Grab Surface Water	7022460
WS-001(0.5-1.0)041413 Grab Surface Water	7022461
WS-004(SURFACE)041413 Grab Surface Water	7022462
WS-004(0.5-1.4)041413 Grab Surface Water	7022463
WS-007(SURFACE)041413 Grab Surface Water	7022464
WS-007(0.5-1.0)041413 Grab Surface Water	7022465
WS-006(SURFACE)041413 Grab Surface Water	7022466
WS-006(0.5-1.0)041413 Grab Surface Water	7022467
WS-TB-10-04142013 Water	7022468

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 Pipeline Company	Attn: Timothy S. Martin
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1382921

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

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

Batch #: G131052AA (Sample number(s): 7022452-7022458, 7022460-7022468 UNSPK: 7022456)

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

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13105WAL026 (Sample number(s): 7022452-7022458, 7022460-7022467 UNSPK: 7022456)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: 1-Methylnaphthalene, Phenanthrene, Fluoranthene

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

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7022456, 7022458, 7022464, MSD

Sample #s: 7022456, 7022465

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

Sample #s: 7022464

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

SW-846 6010B, Metals

Batch #: 131051848006 (Sample number(s): 7022452-7022467 UNSPK: 7022456 BKG: 7022456)

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

SW-846 7470A, Metals

Batch #: 131055713001 (Sample number(s): 7022452-7022467 UNSPK: 7022456 BKG: 7022456)

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

Sample Description: WS-003(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022452
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 08:15 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00314 SDG#: PEG32-01

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022452
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 08:15 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00314 SDG#: PEG32-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0197	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.36	0.0640	0.200	1

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

Sample Description: WS-003(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022452
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 08:15 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00314 SDG#: PEG32-01

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	1.65	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131052AA	04/15/2013 23:23	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/15/2013 23:23	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 05:57	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:18	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 11:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-002(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022453
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 08:45 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00214 SDG#: PEG32-02

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022453
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 08:45 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00214 SDG#: PEG32-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	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	12.2	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	0.0153	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.70	0.0640	0.200	1

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

Sample Description: WS-002(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022453
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 08:45 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00214 SDG#: PEG32-02

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	1.33	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131052AA	04/15/2013 23:45	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/15/2013 23:45	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 06:24	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:22	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 11:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-BKG-001(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022454
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 09:40 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00114 SDG#: PEG32-03

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022454
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 09:40 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00114 SDG#: PEG32-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	22.8	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0324	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.06	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022454
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 09:40 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

00114 SDG#: PEG32-03

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	1.86	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131052AA	04/16/2013 00:07	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 00:07	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 06:51	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:32	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 11:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-005(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022455
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 10:30 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

05S14 SDG#: PEG32-04

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022455
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 10:30 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

05S14 SDG#: PEG32-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.1	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	0.0159	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.44	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022455
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 10:30 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

05S14 SDG#: PEG32-04

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	1.59	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131052AA	04/16/2013 00:28	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 00:28	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 07:19	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:36	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 11:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022456
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:15 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05BKG

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	1.8		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	0.3	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	0.2	J	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	0.2	J	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	1		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.9		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	0.2	J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.2	J	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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022456
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:15 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05BKG

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	0.3	J	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	4.1		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	1.9		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	1.2		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	6.8		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.025	J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.011	J	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.014	J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.011	J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.018	J	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	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	0.039	J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	0.026	J	0.010	0.051	1
08357	Fluorene	86-73-7	0.091		0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.014	J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.097		0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.067		0.010	0.051	1
08357	Naphthalene	91-20-3	0.061		0.030	0.051	1
08357	Phenanthrene	85-01-8	0.072		0.030	0.051	1
08357	Pyrene	129-00-0	0.056		0.010	0.051	1

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	32.4		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	0.182		0.00033	0.0050	1

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

Sample Description: WS-008(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022456
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:15 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05BKG

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**	
07049	Cadmium	7440-43-9	0.00043 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.64	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0221	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0269	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.44	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0217	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	0.0327	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000076 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131052AA	04/16/2013 00:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 00:50	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 04:35	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/15/2013 23:56	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 11:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)MS041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022457
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:20 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05MS

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	42	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.9	0.1	0.5	1
02898	Benzene	71-43-2	7.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.5	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.9	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.5	0.1	0.5	1
02898	Bromoform	75-25-2	5.1	0.1	0.5	1
02898	Bromomethane	74-83-9	5.0	0.1	0.5	1
02898	2-Butanone	78-93-3	37	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.6	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.8	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.7	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.9	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.2	0.1	0.5	1
02898	Chloroform	67-66-3	6.6	0.1	0.5	1
02898	Chloromethane	74-87-3	4.7	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.6	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.2	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.4	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.5	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.2	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.5	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.6	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.5	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.8	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	6.5	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.1	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.0	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.9	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.4	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.5	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.8	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.5	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.0	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.0	0.1	0.5	1
02898	Ethylbenzene	100-41-4	6.7	0.1	0.5	1
02898	Freon 113	76-13-1	6.1	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.0	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	6.0	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.8	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.6	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	26	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.9	0.2	0.5	1

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

Sample Description: WS-008(SURFACE)MS041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022457
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:20 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05MS

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	6.1	0.1	0.5	1
02898	Styrene	100-42-5	5.8	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.6	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.4	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.7	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	2.0	5.0	1
02898	Toluene	108-88-3	10	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	4.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.7	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	7.2	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.2	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.6	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	7.7	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	6.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	25	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.96	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.99	0.010	0.051	1
08357	Anthracene	120-12-7	1.0	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.88	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.67	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.74	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.56	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.71	0.010	0.051	1
08357	Chrysene	218-01-9	0.80	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.55	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.98	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	0.56	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	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.051	1
08357	Pyrene	129-00-0	1.0	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	52.3	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.153	0.0068	0.0200	1
07046	Barium	7440-39-3	2.23	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0502	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.35	0.0640	0.200	1

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

Sample Description: WS-008(SURFACE)MS041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022457
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:20 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05MS

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	0.238	0.0011	0.0150	1
07055	Lead	7439-92-1	0.176	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.03	0.0606	0.100	1
07061	Nickel	7440-02-0	0.537	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.145	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0493	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.555	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	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	G131052AA	04/16/2013 01:11	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 01:11	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 05:03	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:07	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 11:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)MSD041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022458
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:25 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05MSD

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	51	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.7	0.1	0.5	1
02898	Benzene	71-43-2	7.4	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.5	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.8	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.6	0.1	0.5	1
02898	Bromoform	75-25-2	5.3	0.1	0.5	1
02898	Bromomethane	74-83-9	4.9	0.1	0.5	1
02898	2-Butanone	78-93-3	42	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.4	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.6	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.6	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.9	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	4.9	0.1	0.5	1
02898	Chloroform	67-66-3	6.5	0.1	0.5	1
02898	Chloromethane	74-87-3	4.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.5	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.6	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.1	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.6	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.5	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.1	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.5	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.4	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.2	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.7	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	6.5	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.0	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.7	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.9	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.5	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.6	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.8	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.6	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.0	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.0	0.1	0.5	1
02898	Ethylbenzene	100-41-4	6.8	0.1	0.5	1
02898	Freon 113	76-13-1	6.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	3.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	6.0	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.6	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.5	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	26	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.9	0.2	0.5	1

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

Sample Description: WS-008(SURFACE)MSD041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022458
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:25 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05MSD

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	6.1	0.1	0.5	1
02898	Styrene	100-42-5	5.8	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.6	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.3	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.7	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	28	2.0	5.0	1
02898	Toluene	108-88-3	10	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.5	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.7	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.7	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	7.7	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.8	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.0	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.5	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	7.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	7.0	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.0	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	25	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.99	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	0.72	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.48	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.54	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.39	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.52	0.010	0.051	1
08357	Chrysene	218-01-9	0.64	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.36	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.90	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	0.39	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	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.99	0.031	0.051	1
08357	Pyrene	129-00-0	0.96	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	0.150	0.0068	0.0200	1
07046	Barium	7440-39-3	2.23	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0507	0.00036	0.0050	1
01750	Calcium	7440-70-2	10.1	0.0640	0.200	1

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

Sample Description: WS-008(SURFACE)MSD041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022458
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:25 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05MSD

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	0.237	0.0011	0.0150	1
07055	Lead	7439-92-1	0.180	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.74	0.0606	0.100	1
07061	Nickel	7440-02-0	0.543	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.143	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0504	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.557	0.0013	0.0050	1
		SW-846 7470A	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.0011	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	G131052AA	04/16/2013 01:33	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 01:33	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 05:30	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:11	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)DUP041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022459
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 11:15 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

08S14 SDG#: PEG32-05DUP

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	33.9	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.188	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00043 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.77	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0243	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0276	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.73	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0249	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	0.0364	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	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:03	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 11:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-001(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022460
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 12:30 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

01S14 SDG#: PEG32-06

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022460
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 12:30 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

01S14 SDG#: PEG32-06

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.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.9	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0297	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.34	0.0640	0.200	1

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

Sample Description: WS-001(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022460
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 12:30 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

01S14 SDG#: PEG32-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0026 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.59	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	0.0029 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	G131052AA	04/16/2013 01:55	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 01:55	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 07:46	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:40	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022461
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 12:35 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

01514 SDG#: PEG32-07

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022461
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 12:35 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

01514 SDG#: PEG32-07

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	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.7	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0296	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.30	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022461
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 12:35 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

01514 SDG#: PEG32-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0020 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.58	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0025 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	G131052AA	04/16/2013 02:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 02:16	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 08:13	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:43	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-004(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022462
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:00 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

04S14 SDG#: PEG32-08

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022462
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:00 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

04S14 SDG#: PEG32-08

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	0.050	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	0.011 J	0.010	0.050	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.7	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0757	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-004(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022462
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:00 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

04S14 SDG#: PEG32-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0068 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0076 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.03	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0069 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	0.0107	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	G131052AA	04/16/2013 02:38	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 02:38	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 08:40	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:47	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-004(0.5-1.4)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022463
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:05 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

04514 SDG#: PEG32-09

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(0.5-1.4)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022463
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:05 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

04514 SDG#: PEG32-09

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.	0.010	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	19.5	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	0.0833	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.10	0.0640	0.200	1

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

Sample Description: WS-004(0.5-1.4)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022463
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:05 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

04514 SDG#: PEG32-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0080 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0081 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.25	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0088 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	0.0122	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	G131052AA	04/16/2013 02:59	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 02:59	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 09:07	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:50	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-007(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022464
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:35 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

07S14 SDG#: PEG32-10

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	4.1	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(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022464
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:35 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

07S14 SDG#: PEG32-10

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	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	0.023 J	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.029 J	0.010	0.051	1

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

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

Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.9	0.064	0.20	1

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

Sample Description: WS-007(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022464
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:35 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

07S14 SDG#: PEG32-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0748	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.80	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0076 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0065 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.04	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0074 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	0.0113	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	G131052AA	04/16/2013 03:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 03:21	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 09:34	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:54	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022465
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:40 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

07514 SDG#: PEG32-11

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

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

Sample Description: WS-007(0.5-1.0)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022465
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:40 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

07514 SDG#: PEG32-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.014 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	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	0.064	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.060	0.010	0.051	1
	The percent recoveries for several compounds in the LCS associated with this sample were outside QC specification high. Any detected compounds would be biased slightly high. The client was contacted and the data was reported.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	16.9	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0677	0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022465
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 13:40 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

07514 SDG#: PEG32-11

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	3.72	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0049 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.84	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0058 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	0.0080	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	G131052AA	04/16/2013 03:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 03:43	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 10:01	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 00:58	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-006(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022466
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 14:05 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

06S14 SDG#: PEG32-12

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022466
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 14:05 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

06S14 SDG#: PEG32-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.1	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	0.0215	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.38	0.0640	0.200	1

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

Sample Description: WS-006(SURFACE)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022466
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 14:05 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

06S14 SDG#: PEG32-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0017 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0023 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0019 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	G131052AA	04/16/2013 04:05	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 04:05	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 10:28	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 01:01	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022467
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 14:10 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

06514 SDG#: PEG32-13

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)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022467
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 14:10 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

06514 SDG#: PEG32-13

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	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.8	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0280	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.51	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)041413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022467
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013 14:10 by JL

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

06514 SDG#: PEG32-13

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	0.0022 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	0.0031 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	0.0031 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131052AA	04/16/2013 04:26	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/16/2013 04:26	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13105WAL026	04/16/2013 10:56	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13105WAL026	04/15/2013 22:00	Elaine F Stoltzfus	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131056256001	04/16/2013 11:15	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131051848006	04/16/2013 01:05	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131055713001	04/16/2013 12:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131051848006	04/15/2013 16:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131055713001	04/16/2013 08:05	Damary Valentin	1

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

Sample Description: WS-TB-10-04142013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022468
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

T1014 SDG#: PEG32-14TB*

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-TB-10-04142013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7022468
LLI Group # 1382921
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/14/2013

Submitted: 04/15/2013 16:33
Reported: 04/16/2013 15:58

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

T1014 SDG#: PEG32-14TB*

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	G131052AA	04/15/2013 21:57	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131052AA	04/15/2013 21:57	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1382921
Reported: 04/16/13 at 03:58 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: G131052AA	Sample number(s): 7022452-7022458,7022460-7022468								
Acetone	N.D.	3.0	5.0	ug/l	110		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	126		61-130		
Benzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	113		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	101		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	96		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	94		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	103		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	108		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	94		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	106		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	86		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	90		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	104		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	105		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	101		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	79		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	116		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	108		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	108		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	106		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	102		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	105		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	106		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	96		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	97		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	109		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	100		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: 1382921
Reported: 04/16/13 at 03:58 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	107		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	108		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	110		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	100		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	112		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Styrene	N.D.	0.1	0.5	ug/l	110		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	103		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	112		65-131		
Toluene	N.D.	0.1	0.5	ug/l	109		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	95		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	100		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	108		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	94		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	107		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	92		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	108		80-120		
Batch number: 13105WAL026	Sample number(s): 7022452-7022458,7022460-7022467								
Acenaphthene	N.D.	0.010	0.050	ug/l	108		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	112		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	112		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	112		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	111		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	112		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	98		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	111		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	110		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	90		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	117*		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	110		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	99		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	115*		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	112		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	110		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	110*		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	113		71-116		
Batch number: 131051848006	Sample number(s): 7022452-7022467								
Arsenic	N.D.	0.0068	0.0200	mg/l	97		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	100		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	102		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	96		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	100		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: 1382921
Reported: 04/16/13 at 03:58 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131055713001	Sample number(s): 7022452-7022467								
Mercury	N.D.	0.00007 0	0.00020	mg/l	99		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: G131052AA	Sample number(s): 7022452-7022458,7022460-7022468 UNSPK: 7022456								
Acetone	112	135	57-163	18	30				
Allyl Chloride	137	134	67-139	3	30				
Benzene	113	111	87-126	1	30				
Bromobenzene	110	109	80-123	1	30				
Bromochloromethane	118	115	82-125	2	30				
Bromodichloromethane	106	106	82-133	0	30				
Bromoform	101	105	60-138	4	30				
Bromomethane	100	97	41-145	2	30				
2-Butanone	97	113	63-146	15	30				
n-Butylbenzene	109	103	83-131	5	30				
sec-Butylbenzene	112	109	84-128	3	30				
tert-Butylbenzene	115	111	84-135	3	30				
Carbon Tetrachloride	119	119	81-148	0	30				
Chlorobenzene	114	114	78-133	1	30				
Chloroethane	104	99	70-139	5	30				
Chloroform	112	111	86-136	1	30				
Chloromethane	93	91	55-152	2	30				
2-Chlorotoluene	114	110	81-120	3	30				
4-Chlorotoluene	113	112	82-119	1	30				
1,2-Dibromo-3-chloropropane	85	102	43-143	18	30				
Dibromochloromethane	108	111	79-125	3	30				
1,2-Dibromoethane	109	109	84-127	0	30				
Dibromomethane	104	102	83-126	2	30				
1,2-Dichlorobenzene	109	107	83-117	2	30				
1,3-Dichlorobenzene	113	109	81-118	3	30				
1,4-Dichlorobenzene	110	107	79-120	3	30				
Dichlorodifluoromethane	86	84	28-136	3	30				
1,1-Dichloroethane	115	115	88-136	1	30				
1,2-Dichloroethane	101	103	82-135	1	30				
1,1-Dichloroethene	129	129	83-150	0	30				
cis-1,2-Dichloroethene	117	116	82-129	1	30				
trans-1,2-Dichloroethene	121	121	88-127	0	30				
Dichlorofluoromethane	119	114	59-176	5	30				
1,2-Dichloropropane	117	118	91-126	0	30				
1,3-Dichloropropane	109	110	80-127	1	30				
2,2-Dichloropropane	111	111	80-134	1	30				
1,1-Dichloropropene	116	115	86-139	1	30				
cis-1,3-Dichloropropene	109	111	74-132	2	30				
trans-1,3-Dichloropropene	100	100	71-128	0	30				
Ethyl ether	100	99	67-127	1	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: 1382921
Reported: 04/16/13 at 03:58 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	117	118	80-140	1	30				
Freon 113	122	119	87-158	2	30				
Hexachlorobutadiene	80	68	65-128	16	30				
Isopropylbenzene	116	115	81-133	1	30				
p-Isopropyltoluene	111	108	84-124	3	30				
Methyl Tertiary Butyl Ether	113	111	82-132	2	30				
4-Methyl-2-Pentanone	102	102	69-149	0	30				
Methylene Chloride	118	117	84-122	1	30				
n-Propylbenzene	116	115	79-131	0	30				
Styrene	116	117	63-151	1	30				
1,1,1,2-Tetrachloroethane	111	112	87-126	1	30				
1,1,2,2-Tetrachloroethane	109	106	75-131	2	30				
Tetrachloroethene	114	114	75-129	0	30				
Tetrahydrofuran	96	110	56-154	14	30				
Toluene	119	119	83-127	0	30				
1,2,3-Trichlorobenzene	91	90	73-125	1	30				
1,2,4-Trichlorobenzene	98	93	77-120	5	30				
1,1,1-Trichloroethane	115	115	85-140	0	30				
1,1,2-Trichloroethane	143*	155*	85-129	8	30				
Trichloroethene	117	116	85-131	1	30				
Trichlorofluoromethane	105	101	67-161	4	30				
1,2,3-Trichloropropane	111	110	76-120	1	30				
1,2,4-Trimethylbenzene	115	117	87-126	1	30				
1,3,5-Trimethylbenzene	114	115	89-129	1	30				
Vinyl Chloride	102	99	65-151	3	30				
Xylene (Total)	119	121	81-137	1	30				
Batch number: 13105WAL026	Sample number(s): 7022452-7022458,7022460-7022467 UNSPK: 7022456								
Acenaphthene	91	94	59-127	3	30				
Acenaphthylene	96	97	33-146	1	30				
Anthracene	99	98	69-119	0	30				
Benzo(a)anthracene	85	69	67-124	20	30				
Benzo(a)pyrene	65	46*	64-123	33*	30				
Benzo(b)fluoranthene	70	51*	61-133	32*	30				
Benzo(g,h,i)perylene	54	37	36-138	37*	30				
Benzo(k)fluoranthene	70	51*	59-128	31*	30				
Chrysene	75	59*	62-118	22	30				
Dibenz(a,h)anthracene	54	35	32-141	42*	30				
Fluoranthene	93	86	65-123	8	30				
Fluorene	93	94	69-124	1	30				
Indeno(1,2,3-cd)pyrene	53	37	29-143	34*	30				
1-Methylnaphthalene	96	96	67-117	0	30				
2-Methylnaphthalene	94	97	71-126	3	30				
Naphthalene	93	97	58-131	4	30				
Phenanthrene	90	90	67-117	0	30				
Pyrene	93	89	59-125	5	30				
Batch number: 131051848006	Sample number(s): 7022452-7022467 UNSPK: 7022456 BKG: 7022456								
Arsenic	102	100	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	0	20	0.182	0.188	3	20
Cadmium	100	100	83-116	1	20	0.00043 J	0.00043 J	0 (1)	20
Calcium	93	111	81-118	7	20	5.64	5.77	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: 1382921
Reported: 04/16/13 at 03:58 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	108	108	81-120	0	20	0.0221	0.0243	10 (1)	20
Lead	99	102	75-125	2	20	0.0269	0.0276	3 (1)	20
Magnesium	130*	165*	75-125	10	20	4.44	4.73	6	20
Nickel	103	104	86-115	1	20	0.0217	0.0249	13 (1)	20
Selenium	97	95	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	99	101	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	104	105	90-111	0	20	0.0327	0.0364	11	20
Batch number: 131055713001	Sample number(s): 7022452-7022467 UNSPK: 7022456 BKG: 7022456								
Mercury	104	103	80-120	0	20	0.000076 J	N.D.	200* (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: G131052AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7022452	98	100	99	96
7022453	98	98	100	96
7022454	98	98	101	97
7022455	99	99	100	97
7022456	96	97	100	98
7022457	98	99	101	97
7022458	99	98	102	99
7022460	98	99	100	97
7022461	97	100	99	95
7022462	96	99	100	97
7022463	97	99	100	96
7022464	96	99	100	97
7022465	99	101	100	96
7022466	97	100	100	96
7022467	97	101	100	96
7022468	97	102	99	97
Blank	98	100	100	96
LCS	98	100	101	97
MS	98	99	101	97
MSD	99	98	102	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13105WAL026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7022452	107	98	97

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1382921
Reported: 04/16/13 at 03:58 PM

Surrogate Quality Control

7022453	110	108	98
7022454	107	94	101
7022455	99	87	90
7022456	79	55*	82
7022457	90	71	90
7022458	87	53*	96
7022460	102	102	96
7022461	102	93	96
7022462	78	65	80
7022463	84	70	86
7022464	75	56*	79
7022465	86	73	86
7022466	99	88	95
7022467	88	63	88
Blank	106	114	100
LCS	111	113	105
MS	90	71	90
MSD	87	53*	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

eurofins | Lancaster Laboratories

Acct. # 14739 Group # X 1382921 Sample # 7022452-68

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

4/15/13 (3)

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 ~~1904~~ 6799

Sampler: JON LEMESSURIER 315 558 1904

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

(5) Analyses Requested

Preservation Code: H, N

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

(6) Remarks: DATA ANALYSIS QUESTIONS: LYNDI MOTT - ARCADIS

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Soil	Water	Oil	Total # of Containers	VOCs - 8260 SIM	PAH - 8270 SIM	8 RCRA METALS + Ni, V, Ca, Mg, HARDNESS
WS-003 (SURFACE) 041413	4/14/13	0815	X			✓		6	X	X	X
WS-002 (SURFACE) 041413	↓	0845	X			✓		6	X	X	X
WS-BKG-001 (SURFACE) 041413		0940	X			✓		6	X	X	X
WS-005 (SURFACE) 041413		1030	X			✓		6	X	X	X
WS-008 (SURFACE) 041413		1115	X			✓		6	X	X	X
WS-008 (SURFACE) MS 041413		1120	X			✓		6	X	X	X
WS-008 (SURFACE) MSD 041413		1125	X			✓		6	X	X	X
WS-001 (SURFACE) 041413		1230	X			✓		6	X	X	X
WS-001 (0.5-1.0) 041413		1235	X			✓		6	X	X	X
WS-004 (SURFACE) 041413		1300	X			✓		6	X	X	X
WS-004 (0.5-1.0) 041413		1305	X			✓		6	X	X	[illegible]
WS-007 (SURFACE) 041413	↓	1335	X			✓		6	X	X	X

(7) Turnaround Time Requested (TAT) (please circle)

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

(8) Data Package (circle if required)

Type I - Full
Type VI (Raw Data)
NJ Reduced
Other _____

EDD (circle if required)

Locus EIM (default)
Other _____

(9)

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4/14/13	1700			

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other SOUTHWEST LINES

Temperature Upon Receipt 1.4°-3.4° °C

Custody Seals Intact? Yes 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.

Issued by Dept. 40 Management 7053.01

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 138921 For Lancaster Laboratories use only Sample # 7022452-68

Instructions on reverse side correspond with circled numbers.

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: JON LEMESSURIER 315 558 1904

4 Matrix

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

5 Analyses Requested / Preservation Code

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOCs - 8260 SIM	PAH - 8270 SIM	8 RCRA Metals + Ni, V, Ca, Mg, Hardness
WS-007 (0.5-1.0) 041413	4/14/13	1340	X		6	X	X	X
WS-006 (SURFACE) 041413		1405	X		6	X	X	X
WS-006 (0.5-1.0) 041413		1410	X		6	X	X	X
WS-TB-10-041413		—	X		2	X		

Preservation Codes

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

6 Remarks

DATA ANALYSIS QUESTIONS: LYNDI MOTT - ARCADIS

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
	4/14/13	1700			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other SOUTHWEST AIRLINES			Received by	4/15/13	1633

Temperature Upon Receipt 1.4° 3.4° °C

Custody Seals Intact? (Yes) No

9

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.

Issued by Dept. 40 Management 7053.01

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Environmental Sample Administration Receipt Documentation Log

1382921

Client/Project: Aradas

Date of Receipt: 4/15/13

Time of Receipt: 1633

Source Code: 01

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.4°	TB	WI	Y	B	
2	↓	3.4°	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: 238 **Date/Time:** 4/15/13 1655

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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