ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 30, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/24/2013
Group Number: 1392314
SDG: PEH77
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(Surface)052313 Grab Surface Water	7068969
WS-002(Surface)052313 Grab Surface Water	7068970
WS-BKG-002(Surface)052313 Grab Surface Water	7068971
WS-005(Surface)052313 Grab Surface Water	7068972
WS-008(Surface)052313 Grab Surface Water	7068973
WS-008(Surface)052313MS Grab Surface Water	7068974
WS-008(Surface)052313MSD Grab Surface Water	7068975
WS-008(Surface)052313DUP Grab Surface Water	7068976
WS-001(Surface)052313 Grab Surface Water	7068977
WS-001(0.5-1.0)052313 Grab Surface Water	7068978
WS-004(Surface)052313 Grab Surface Water	7068979
WS-004(0.5-1.0)052313 Grab Surface Water	7068980
WS-007(Surface)052313 Grab Surface Water	7068981
WS-007(0.5-1.0)052313 Grab Surface Water	7068982
WS-006(Surface)052313 Grab Surface Water	7068983
WS-006(0.5-1.0)052313 Grab Surface Water	7068984
WS-TB-51-052313 Water	7068985

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth

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

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1392314

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13144WAH026 (Sample number(s): 7068969-7068975, 7068977-7068984 UNSPK: 7068973)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7068979, 7068980, 7068981, 7068982

SW-846 6010B, Metals

Batch #: 131441848001 (Sample number(s): 7068969-7068984 UNSPK: 7068973 BKG: 7068973)

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

Sample Description: WS-003(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068969
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:00 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23003 SDG#: PEH77-01

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068969
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:00 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23003 SDG#: PEH77-01

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	0.2	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.052	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	0.056		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	18.0		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0208		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	3.99		0.0640	0.200	1

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

Sample Description: WS-003(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068969
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:00 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23003 SDG#: PEH77-01

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	1.96	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	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	C131441AA	05/24/2013 16:32	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 16:32	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 13:48	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:14	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068970
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:10 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23002 SDG#: PEH77-02

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068970
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:10 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23002 SDG#: PEH77-02

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	0.060	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	16.0	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0165	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.54	0.0640	0.200	1

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

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Analysis Report

Sample Description: WS-002(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068970
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:10 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23002 SDG#: PEH77-02

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	1.75	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0017 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131441AA	05/24/2013 16:54	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 16:54	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 14:15	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:26	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-BKG-002(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068971
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:20 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23BK2 SDG#: PEH77-03

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-002(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068971
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:20 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23BK2 SDG#: PEH77-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	22.0	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0400	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.23	0.0640	0.200	1

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

Sample Description: WS-BKG-002(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068971
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:20 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23BK2 SDG#: PEH77-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0023 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.18	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0041 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	C131441AA	05/24/2013 17:16	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 17:16	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 14:42	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:30	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068972
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:40 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-04

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068972
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:40 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-04

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	0.038 J	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.1	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	0.0141	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.87	0.0640	0.200	1

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

Sample Description: WS-005(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068972
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:40 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-04

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	1.80	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 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	C131441AA	05/24/2013 21:21	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 21:21	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 15:09	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:34	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068973
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05BKG

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	3.9	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-008(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068973
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.039 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.015 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.017 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.036 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.029 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.013 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.017 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	0.018 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	0.027 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.034 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.032 J	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	26.7	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	0.0778	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00053 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.50	0.0640	0.200	1

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

Sample Description: WS-008(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068973
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0114 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0101 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.15	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0103	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	0.0170	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	C131441AA	05/24/2013 15:25	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 15:25	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 15:36	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 16:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)052313MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068974
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	48	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.9	0.1	0.5	1
02898	Benzene	71-43-2	5.2	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.4	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.3	0.1	0.5	1
02898	Bromoform	75-25-2	5.8	0.1	0.5	1
02898	Bromomethane	74-83-9	4.5	0.1	0.5	1
02898	2-Butanone	78-93-3	45	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.4	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.4	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.6	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.6	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.6	0.1	0.5	1
02898	Chloroethane	75-00-3	4.5	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	3.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.4	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.5	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	6.5	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.6	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.2	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.2	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.4	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.4	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	2.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.2	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	5.6	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.3	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.7	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.4	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.2	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.1	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.4	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.1	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.8	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.5	0.1	0.5	1
02898	Freon 113	76-13-1	5.6	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.5	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.7	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	25	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.2	0.2	0.5	1

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

Sample Description: WS-008(Surface)052313MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068974
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05MS

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	5.3	0.1	0.5	1
02898	Styrene	100-42-5	5.6	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	5.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	29	2.0	5.0	1
02898	Toluene	108-88-3	5.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.0	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.0	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.3	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.5	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.8	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.4	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	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	1.2	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.84	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.97	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.92	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.93	0.010	0.051	1
08357	Chrysene	218-01-9	0.94	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.88	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.0	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	0.94	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	1.0	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.98	0.031	0.051	1
08357	Pyrene	129-00-0	1.2	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	44.2	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.158	0.0068	0.0200	1
07046	Barium	7440-39-3	2.13	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0511	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.25	0.0640	0.200	1

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

Sample Description: WS-008(Surface)052313MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068974
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05MS

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	0.217	0.0011	0.0150	1
07055	Lead	7439-92-1	0.161	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.12	0.0606	0.100	1
07061	Nickel	7440-02-0	0.532	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.151	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0516	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.529	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	C131441AA	05/24/2013 15:47	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 15:47	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 16:03	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 16:58	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)052313MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068975
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05MSD

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	48	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.9	0.1	0.5	1
02898	Benzene	71-43-2	5.4	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.4	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.3	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.4	0.1	0.5	1
02898	Bromoform	75-25-2	6.0	0.1	0.5	1
02898	Bromomethane	74-83-9	4.5	0.1	0.5	1
02898	2-Butanone	78-93-3	42	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.5	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.6	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.7	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	4.6	0.1	0.5	1
02898	Chloroform	67-66-3	5.5	0.1	0.5	1
02898	Chloromethane	74-87-3	3.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.5	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.7	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	6.2	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.8	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.4	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.3	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	2.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.5	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.2	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.0	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.5	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.6	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.7	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.5	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.3	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.4	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.6	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.3	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.0	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.4	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.6	0.1	0.5	1
02898	Freon 113	76-13-1	6.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.7	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	4.9	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	27	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.4	0.2	0.5	1

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

Sample Description: WS-008(Surface)052313MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068975
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05MSD

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	5.4	0.1	0.5	1
02898	Styrene	100-42-5	5.7	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.7	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	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	28	2.0	5.0	1
02898	Toluene	108-88-3	5.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.2	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.2	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.6	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.6	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.7	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.4	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.6	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.0	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.052	1
08357	Anthracene	120-12-7	1.1	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.2	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.88	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.94	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.88	0.010	0.052	1
08357	Chrysene	218-01-9	0.96	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.91	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.052	1
08357	Fluorene	86-73-7	1.0	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.96	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.052	1
08357	Pyrene	129-00-0	1.2	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	45.0	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.154	0.0068	0.0200	1
07046	Barium	7440-39-3	2.11	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0507	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.53	0.0640	0.200	1

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

Sample Description: WS-008(Surface)052313MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068975
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05MSD

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	0.214	0.0011	0.0150	1
07055	Lead	7439-92-1	0.162	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.14	0.0606	0.100	1
07061	Nickel	7440-02-0	0.529	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0506	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.523	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	C131441AA	05/24/2013 16:09	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 16:09	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 16:30	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:02	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008(Surface)052313DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068976
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23008 SDG#: PEH77-05DUP

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	26.5	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0762	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00036 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.48	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0112 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0112 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.12	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0104	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	0.0161	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	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 16:54	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068977
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:20 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23011 SDG#: PEH77-06

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068977
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:20 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23011 SDG#: PEH77-06

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	0.079	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	18.3	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0378	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.94	0.0640	0.200	1

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

Sample Description: WS-001(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068977
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:20 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23011 SDG#: PEH77-06

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	0.0034 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.05	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0043 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	0.0044 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	C131441AA	05/24/2013 18:23	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 18:23	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 16:57	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:38	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068978
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:30 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23012 SDG#: PEH77-07

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068978
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:30 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23012 SDG#: PEH77-07

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	0.073	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.8	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	0.0412	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.75	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068978
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:30 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23012 SDG#: PEH77-07

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	0.0039 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.05	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0042 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	0.0056	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	C131441AA	05/24/2013 18:45	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 18:45	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 17:24	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068979
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:35 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23041 SDG#: PEH77-08

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068979
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:35 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23041 SDG#: PEH77-08

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	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.050 J	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	43.8	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0103 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.291	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0011 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.46	0.0640	0.200	1

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

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Analysis Report

Sample Description: WS-004(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068979
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:35 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23041 SDG#: PEH77-08

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	0.0431	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0372	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.11	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0305	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	0.0620	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	C131441AA	05/24/2013 19:07	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 19:07	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 17:51	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068980
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:40 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23042 SDG#: PEH77-09

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

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

Sample Description: WS-004(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068980
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:40 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23042 SDG#: PEH77-09

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	0.073	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	43.2	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	0.292	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0012 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.75	0.0640	0.200	1

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

Sample Description: WS-004(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068980
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:40 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23042 SDG#: PEH77-09

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	0.0398	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0518	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.80	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0301	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	0.0570	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000080 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	C131441AA	05/24/2013 19:30	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 19:30	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 18:19	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068981
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:45 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23071 SDG#: PEH77-10

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	3.8	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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068981
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:45 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23071 SDG#: PEH77-10

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	0.014 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.015 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.016 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.033 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	0.040 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	0.077	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.089	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	46.9	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0085 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.334	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0013 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.46	0.0640	0.200	1

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

Sample Description: WS-007(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068981
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:45 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23071 SDG#: PEH77-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0468	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0396	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.86	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0337	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	0.0684	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000072 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	C131441AA	05/24/2013 19:52	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 19:52	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 18:46	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:54	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068982
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23072 SDG#: PEH77-11

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	3.8	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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068982
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23072 SDG#: PEH77-11

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.052	1
08357	Anthracene	120-12-7	0.018	J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.027	J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.019	J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.061		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.019	J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.021	J	0.010	0.052	1
08357	Chrysene	218-01-9	0.062		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.052	1
08357	Fluoranthene	206-44-0	0.12		0.010	0.052	1
08357	Fluorene	86-73-7	N.D.		0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.023	J	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	0.050	J	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.052	1
08357	Pyrene	129-00-0	0.12		0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	48.1		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0124	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.343		0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0013	J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.42		0.0640	0.200	1

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

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Analysis Report

Sample Description: WS-007(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068982
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:50 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23072 SDG#: PEH77-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0508	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0429	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.18	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0369	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	0.0731	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000080 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	C131441AA	05/24/2013 20:14	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 20:14	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 19:13	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 17:58	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068983
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:00 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23061 SDG#: PEH77-12

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068983
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:00 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23061 SDG#: PEH77-12

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	0.012	J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	0.013	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	0.034	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	0.062		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
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.4		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0270		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	3.81		0.0640	0.200	1

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

Sample Description: WS-006(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068983
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:00 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23061 SDG#: PEH77-12

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	0.0023 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.91	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0032 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	C131441AA	05/24/2013 20:36	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 20:36	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 19:40	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 18:02	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068984
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:10 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23062 SDG#: PEH77-13

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)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068984
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:10 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23062 SDG#: PEH77-13

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	0.013 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	0.069	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.011 J	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	17.4	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0277	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.78	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068984
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:10 by JO

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23062 SDG#: PEH77-13

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	0.0025 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.94	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0028 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0025 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	C131441AA	05/24/2013 20:58	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 20:58	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13144WAH026	05/27/2013 20:07	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13144WAH026	05/25/2013 10:00	Seth A Farrier	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131446256001	05/24/2013 21:42	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07046	Barium	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
01750	Calcium	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07051	Chromium	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07055	Lead	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07061	Nickel	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07036	Selenium	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07066	Silver	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131441848001	05/24/2013 18:14	John P Hook	1
00259	Mercury	SW-846 7470A	1	131445713001	05/25/2013 06:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131441848001	05/24/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131445713001	05/24/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-TB-51-052313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068985
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23T51 SDG#: PEH77-14TB*

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-51-052313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7068985
LLI Group # 1392314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013

Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23T51 SDG#: PEH77-14TB*

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	C131441AA	05/24/2013 15:03	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131441AA	05/24/2013 15:03	Kerri E Legerlotz	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1392314
Reported: 05/30/13 at 09:57 AM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: C131441AA	Sample number(s): 7068969-7068975,7068977-7068985								
Acetone	N.D.	3.0	5.0	ug/l	99		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	98		61-130		
Benzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	108		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	103		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	113		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	87		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	104		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	110		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	87		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	105		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	69		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	101		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	113		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	109		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	101		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	102		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	44		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	105		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	113		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	109		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	101		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	106		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	99		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	94		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	87		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	111		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	97		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: 1392314
Reported: 05/30/13 at 09:57 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	102		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	94		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	92		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	109		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Styrene	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	95		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	111		65-131		
Toluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	90		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	91		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	105		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	91		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	96		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	77		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		
Batch number: 13144WAH026	Sample number(s): 7068969-7068975,7068977-7068984								
Acenaphthene	N.D.	0.010	0.050	ug/l	79		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	83		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	84		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	86		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	79		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	86		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	91		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	89		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	84		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	93		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	82		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	81		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	90		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	84		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	83		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	79		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	79		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	83		71-116		
Batch number: 131441848001	Sample number(s): 7068969-7068984								
Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	103		90-112		
Calcium	0.0985 J	0.0640	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	103		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	102		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	102		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: 1392314
Reported: 05/30/13 at 09:57 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131445713001	Sample number(s): 7068969-7068984								
Mercury	N.D.	0.00007 0	0.00020	mg/l	97		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: C131441AA	Sample number(s): 7068969-7068975,7068977-7068985 UNSPK: 7068973								
Acetone	119	117	57-163	1	30				
Allyl Chloride	98	98	67-139	1	30				
Benzene	105	109	87-126	3	30				
Bromobenzene	105	109	80-123	4	30				
Bromochloromethane	108	105	82-125	3	30				
Bromodichloromethane	106	108	82-133	2	30				
Bromoform	116	119	60-138	3	30				
Bromomethane	90	90	41-145	0	30				
2-Butanone	119	112	63-146	7	30				
n-Butylbenzene	107	110	83-131	2	30				
sec-Butylbenzene	108	111	84-128	3	30				
tert-Butylbenzene	111	114	84-135	3	30				
Carbon Tetrachloride	112	117	81-148	4	30				
Chlorobenzene	111	113	78-133	2	30				
Chloroethane	91	92	70-139	2	30				
Chloroform	107	109	86-136	3	30				
Chloromethane	71	73	55-152	1	30				
2-Chlorotoluene	107	111	81-120	3	30				
4-Chlorotoluene	110	113	82-119	3	30				
1,2-Dibromo-3-chloropropane	130	124	43-143	5	30				
Dibromochloromethane	112	116	79-125	4	30				
1,2-Dibromoethane	103	108	84-127	5	30				
Dibromomethane	105	106	83-126	1	30				
1,2-Dichlorobenzene	107	110	83-117	3	30				
1,3-Dichlorobenzene	108	112	81-118	3	30				
1,4-Dichlorobenzene	107	111	79-120	3	30				
Dichlorodifluoromethane	46	46	28-136	0	30				
1,1-Dichloroethane	103	109	88-136	6	30				
1,2-Dichloroethane	102	104	82-135	2	30				
1,1-Dichloroethene	112	120	83-150	6	30				
cis-1,2-Dichloroethene	106	110	82-129	4	30				
trans-1,2-Dichloroethene	105	112	88-127	6	30				
Dichlorofluoromethane	113	113	59-176	0	30				
1,2-Dichloropropane	108	110	91-126	2	30				
1,3-Dichloropropane	104	106	80-127	3	30				
2,2-Dichloropropane	101	108	80-134	6	30				
1,1-Dichloropropene	107	113	86-139	5	30				
cis-1,3-Dichloropropene	101	105	74-132	4	30				
trans-1,3-Dichloropropene	95	99	71-128	4	30				
Ethyl ether	82	87	67-127	6	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: 1392314
Reported: 05/30/13 at 09:57 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	109	112	80-140	3	30				
Freon 113	111	120	87-158	7	30				
Hexachlorobutadiene	107	108	65-128	0	30				
Isopropylbenzene	110	114	81-133	3	30				
p-Isopropyltoluene	110	113	84-124	2	30				
Methyl Tertiary Butyl Ether	93	98	82-132	5	30				
4-Methyl-2-Pentanone	101	107	69-149	5	30				
Methylene Chloride	104	109	84-122	5	30				
n-Propylbenzene	106	109	79-131	3	30				
Styrene	112	114	63-151	2	30				
1,1,1,2-Tetrachloroethane	113	114	87-126	1	30				
1,1,2,2-Tetrachloroethane	103	107	75-131	4	30				
Tetrachloroethene	112	113	75-129	0	30				
Tetrahydrofuran	114	111	56-154	3	30				
Toluene	107	110	83-127	3	30				
1,2,3-Trichlorobenzene	99	103	73-125	4	30				
1,2,4-Trichlorobenzene	100	104	77-120	4	30				
1,1,1-Trichloroethane	106	112	85-140	5	30				
1,1,2-Trichloroethane	109	112	85-129	3	30				
Trichloroethene	110	112	85-131	3	30				
Trichlorofluoromethane	95	94	67-161	1	30				
1,2,3-Trichloropropane	103	108	76-120	5	30				
1,2,4-Trimethylbenzene	108	111	87-126	2	30				
1,3,5-Trimethylbenzene	109	111	89-129	2	30				
Vinyl Chloride	81	82	65-151	1	30				
Xylene (Total)	111	114	81-137	2	30				
Batch number: 13144WAH026	Sample number(s): 7068969-7068975,7068977-7068984 UNSPK: 7068973								
Acenaphthene	97	98	59-127	2	30				
Acenaphthylene	102	103	33-146	2	30				
Anthracene	97	101	69-119	5	30				
Benzo(a)anthracene	113	113	67-124	1	30				
Benzo(a)pyrene	81	83	64-123	4	30				
Benzo(b)fluoranthene	92	99	61-133	9	30				
Benzo(g,h,i)perylene	88	88	36-138	2	30				
Benzo(k)fluoranthene	89	84	59-128	5	30				
Chrysene	90	91	62-118	3	30				
Dibenz(a,h)anthracene	86	88	32-141	3	30				
Fluoranthene	96	98	65-123	3	30				
Fluorene	100	100	69-124	2	30				
Indeno(1,2,3-cd)pyrene	89	90	29-143	3	30				
1-Methylnaphthalene	103	104	67-117	2	30				
2-Methylnaphthalene	102	102	71-126	2	30				
Naphthalene	99	99	58-131	1	30				
Phenanthrene	96	97	67-117	2	30				
Pyrene	110	110	59-125	2	30				
Batch number: 131441848001	Sample number(s): 7068969-7068984 UNSPK: 7068973 BKG: 7068973								
Arsenic	105	102	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	1	20	0.0778	0.0762	2	20
Cadmium	101	100	83-116	1	20	0.00053 J	0.00036 J	38* (1)	20
Calcium	94	101	81-118	3	20	5.50	5.48	0	20

*- 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: 1392314
Reported: 05/30/13 at 09:57 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	103	101	81-120	1	20	0.0114 J	0.0112 J	2 (1)	20
Lead	101	101	75-125	0	20	0.0101 J	0.0112 J	10 (1)	20
Magnesium	99	100	75-125	0	20	3.15	3.12	1	20
Nickel	104	104	86-115	1	20	0.0103	0.0104	1 (1)	20
Selenium	101	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	103	101	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	102	101	90-111	1	20	0.0170	0.0161	5 (1)	20
Batch number: 131445713001	Sample number(s): 7068969-7068984 UNSPK: 7068973 BKG: 7068973								
Mercury	107	106	80-120	0	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge
Batch number: C131441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7068969	104	102	100	96
7068970	103	101	99	96
7068971	104	102	98	96
7068972	105	104	98	96
7068973	104	101	99	96
7068974	102	101	101	99
7068975	103	100	101	99
7068977	105	104	98	96
7068978	105	104	99	96
7068979	105	102	99	95
7068980	105	101	99	95
7068981	104	100	99	95
7068982	105	103	98	96
7068983	105	102	99	95
7068984	105	104	99	96
7068985	105	102	99	96
Blank	104	102	99	95
LCS	102	100	101	99
MS	102	101	101	99
MSD	103	100	101	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13144WAH026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7068969	95	89	94

*- 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: 1392314
Reported: 05/30/13 at 09:57 AM

Surrogate Quality Control

7068970	97	93	96
7068971	92	95	93
7068972	93	89	93
7068973	87	91	91
7068974	96	102	101
7068975	97	102	101
7068977	96	91	97
7068978	96	93	98
7068979	44*	37*	49*
7068980	48*	32*	64
7068981	45*	41*	70
7068982	53*	40*	66
7068983	93	84	95
7068984	88	78	89
Blank	89	92	85
LCS	80	88	82
MS	96	102	101
MSD	97	102	101
Limits:	64-120	62-141	58-134

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

ExxonMobil Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1392314 Sample # 7068969-85
Instructions on reverse side correspond with circled numbers.

Pg. 1 of 2

SCR#:

(1) Client Information

Facility #/SID: Mayflower Pipeline Incident
Site Address: Mayflower, AR
ExxonMobil PM: Scott Bushroe
Cost Center/AFE:
Consultant/Office: ARCADIS US
Consultant PM: Steve Barrick
Consultant Phone #: 919-302-6799
Sampler: Joshua Oliver / Hans VanAller 315-857-5293

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

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

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

(6) Remarks: Data Analysis Questions Lynd Mott ARCADIS

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Soil	Water	Oil	Total # of Containers	VOC 8260B (H)	PAH 8270 SIM	RCRA Metals + Ni, V, Mg, Ca (N)	Remarks
WS-003(surface)052313	5/23/13	0900	X			X		6	X	X	X	
WS-002(surface)052313		0910						6	X	X	X	
WS-BKG-002(surface)052313		0920						6	X	X	X	
WS-005(surface)052313		0940						6	X	X	X	
WS-008(surface)052313		0950						6	X	X	X	
WS-008(surface)052313 MS/MSD		0950						12	X	X	X	MS/MSD
WS-001(surface)052313		1020						6	X	X	X	
WS-001(0.5-1.0)052313		1030						6	X	X	X	
WS-004(surface)052313		1035						6	X	X	X	
WS-004(0.5-1.0)052313		1040						6	X	X	X	
WS-007(surface)052313		1045						6	X	X	X	
WS-007(0.5-1.0)052313		1050						6	X	X	X	

(7) Turnaround Time Requested (TAT) (please circle)
Standard 5 day 4 day
(72 hour — circled) 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] ARCADIS	5/23/13	1800			
Relinquished by Commercial Carrier: UPS ___ FedEx (circled) ___ Other ___			[signature]	5/24/13	0915

Temperature Upon Receipt 0.5 °C
Custody Seals Intact? Yes (circled) No

ExxonMobil Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1392314 Sample # 7068969-85
Instructions on reverse side correspond with circled numbers.

Pg. 2 of 2

SCR#: ______

(1) Client Information

Facility #/SID: Mayflower Pipeline Incident
Site Address: Mayflower, AR
ExxonMobil PM: Scott Bushne
Cost Center/AFE:
Consultant/Office: ARCADIS US
Consultant PM: Steve Barrick
Consultant Phone #: 919-302-6799
Sampler: Joshua Olher / Hans VanAller 315857-5793

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

(5) Analyses Requested — Preservation Code: VOC 8260 B (H), PAH 8270 SIM, RCRA Metals + Ni, V, Major Analysis (N)

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Soil	Water	Oil	Total # of Containers	VOC 8260 B	PAH 8270 SIM	RCRA Metals + Ni, V, Major Analysis
WS-006 (surface) 052313	5/23/13	1100	X			X		6	X	X	X
WS-006 (0.5-1.0) 052313	↓	1110	X			X		6	X	X	X
WS-TB-51-052313	↓	—	X			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
Lynch Mott
ARCADIS

(7) Turnaround Time Requested (TAT) (please circle)
Standard 5 day 4 day
72 hour (circled) 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
J. Olher ARCADIS	5/23/13	1800			
Relinquished by			Received by		
Relinquished by			Received by		

Relinquished by Commercial Carrier: UPS ___ FedEx (circled) ___ Other ______
Received by: [signature] Date: 5/24/13 Time: 0915

Temperature Upon Receipt 0.5 °C
Custody Seals Intact? Yes (circled) No

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Environmental Sample Administration Receipt Documentation Log

1392314

Client/Project: XOM Mayflower

Date of Receipt: 5/24/13

Time of Receipt: 0915

Source Code: 50-1

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	0.5	TB	WI	Y	B	
2	↓	0.5	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: DaMeslund /208 **Date/Time:** 5/24/13 0930

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.