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

August 01, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/27/2013
Group Number: 1407335
SDG: PEJ50
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-014(1.5-2.0)072613 Filtered Grab Surface Water	7142313
WS-014(5.5-6.0)072613 Filtered Grab Surface Water	7142314
WS-012(1.5-2.0)072613 Filtered Grab Surface Water	7142315
WS-012(5.0-5.5)072613 Filtered Grab Surface Water	7142316
WS-010(1.5-2.0)072613 Filtered Grab Surface Water	7142317
WS-010(3.5-4.0)072613 Filtered Grab Surface Water	7142318
WS-005(Surface)072613 Filtered Grab Surface Water	7142319
WS-011(1.5-2.0)072613 Filtered Grab Surface Water	7142320
WS-011(5.0-5.5)072613 Filtered Grab Surface Water	7142321
WS-003(Surface)072613 Filtered Grab Surface Water	7142322
WS-002(Surface)072613 Filtered Grab Surface Water	7142323
WS-018(Surface)072613 Filtered Grab Surface Water	7142324
WS-007(0.5-1.0)072613 Filtered Grab Surface Water	7142325
WS-006(0.5-1.0)072613 Filtered Grab Surface Water	7142326
WS-006(0.5-1.0)072613 MS Filt. Grab Surface Water	7142327
WS-006(0.5-1.0)072613 MSD Filt. Grab Surface Water	7142328
WS-006(0.5-1.0)072613 DUP Filt. Grab Surface Water	7142329
WS-001(0.5-1.0)072613 Filt. Grab Surface Water	7142330
EB-11-072613 Filtered Grab Water	7142331

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: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1407335

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 6010B, Metals Dissolved

Batch #: 132081848002 (Sample number(s): 7142325 UNSPK: P142305 BKG: P142305)

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

Sample Description: WS-014(1.5-2.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142313
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 09:10 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1415 SDG#: PEJ50-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0167	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:13	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142314
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 09:20 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1455 SDG#: PEJ50-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0168	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:16	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142315
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 09:50 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1215 SDG#: PEJ50-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0156	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:27	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142316
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 10:00 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1250 SDG#: PEJ50-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0153	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:31	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142317
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 10:20 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1015 SDG#: PEJ50-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0162	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:34	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142318
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 10:30 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1035 SDG#: PEJ50-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0173	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:38	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142319
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 11:00 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-05SF SDG#: PEJ50-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0161	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:42	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142320
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 11:40 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1115 SDG#: PEJ50-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0174	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:45	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142321
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 11:50 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-1150 SDG#: PEJ50-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0179	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:49	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142322
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 12:15 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-03SF SDG#: PEJ50-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0153	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:53	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142323
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 12:45 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-02SF SDG#: PEJ50-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0179	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:56	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142324
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 12:30 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-18SF SDG#: PEJ50-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0299	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 14:00	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142325
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 13:20 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-0705 SDG#: PEJ50-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0193	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0021 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0024 J	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132081848002	07/30/2013 02:33	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132085713001	07/30/2013 05:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132081848002	07/29/2013 16:15	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132085713001	07/29/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072613 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142326
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 13:45 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-0605 SDG#: PEJ50-14BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0177	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 12:51	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072613 MS Filt. Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142327
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 13:45 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-0605 SDG#: PEJ50-14MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.150	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0495	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.146	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.511	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.139	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0564	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.523	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.0011	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:02	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072613 MSD Filt. Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142328
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 13:45 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-0605 SDG#: PEJ50-14MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.147	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0494	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.203	0.0016	0.0150	1
07055	Lead	7439-92-1	0.147	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.511	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.138	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0559	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.521	0.0020	0.0050	1
		SW-846 7470A	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.0011	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 13:05	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072613 DUP Filt. Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142329
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 13:45 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-0605 SDG#: PEJ50-14DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0169	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 12:58	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)072613 Filt. Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142330
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 14:10 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

-105- SDG#: PEJ50-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.0163	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 14:11	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 06:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: EB-11-072613 Filtered Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7142331
LL Group # 1407335
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/26/2013 17:00 by JW

Submitted: 07/27/2013 09:35
Reported: 08/01/2013 06:55

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

EB-11 SDG#: PEJ50-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**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	0.00050 J	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132101848003	07/31/2013 14:14	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132105713002	07/31/2013 07:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848003	07/30/2013 08:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713002	07/30/2013 16:10	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1407335
Reported: 08/01/13 at 06:55 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: 132081848002	Sample number(s): 7142325								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	104		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	103		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	106		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	100		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		
Batch number: 132085713001	Sample number(s): 7142325								
Mercury	N.D.	0.00006 0	0.00020	mg/l	98		80-120		
Batch number: 132101848003	Sample number(s): 7142313-7142324,7142326-7142331								
Arsenic	N.D.	0.0068	0.0200	mg/l	97		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	98		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	91		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	110		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	103		90-110		
Batch number: 132105713002	Sample number(s): 7142313-7142324,7142326-7142331								
Mercury	N.D.	0.00006 0	0.00020	mg/l	111		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: 132081848002	Sample number(s): 7142325 UNSPK: P142305 BKG: P142305								
Arsenic	83	91	81-123	5	20	0.113	0.104	9	20
Barium	93	98	78-118	3	20	2.21	2.20	1	20
Cadmium	92	94	83-116	2	20	0.0097	0.0089	8 (1)	20

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1407335
Reported: 08/01/13 at 06:55 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	90	106	81-120	7	20	0.259	0.236	9	20
Lead	9 (2)	53 (2)	75-125	7	20	0.859	0.794	8	20
Nickel	92	98	86-115	3	20	0.279	0.265	5	20
Selenium	91	94	75-125	3	20	0.0139 J	0.0117 J	18 (1)	20
Silver	97	97	75-125	1	20	0.0034 J	0.0038 J	12 (1)	20
Vanadium	102	107	90-111	3	20	0.380	0.367	4	20
Batch number: 132085713001	Sample number(s): 7142325 UNSPK: P142342 BKG: P142342								
Mercury	112	98	80-120	13	20	N.D.	N.D.	0 (1)	20
Batch number: 132101848003	Sample number(s): 7142313-7142324,7142326-7142331 UNSPK: 7142326 BKG: 7142326								
Arsenic	100	98	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	0	20	0.0177	0.0169	5 (1)	20
Cadmium	99	99	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	102	102	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	97	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	102	102	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	92	92	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	113	112	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	105	104	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132105713002	Sample number(s): 7142313-7142324,7142326-7142331 UNSPK: 7142326 BKG: 7142326								
Mercury	113	108	80-120	5	20	N.D.	N.D.	0 (1)	20

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

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1407335 Sample # 7142313-31

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 of 2

SCR#: _____

1 Client Information

Facility #/SID

Site Address

ExxonMobil PM | Cost Center/AFE

Consultant/Office

Consultant PM | Consultant Phone #

Sampler

4 Matrix

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

5 Analyses Requested

Preservation Code

Preservation Codes

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

6 Remarks

Lab to filter and preserve diss metals upon receipt

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOCs 8260 (H)	PAHs 8270 SIM (H)	RCRA metals V,Ni,Cr,Mg hardness (N)	Diss metals (N)	Oil and Grease HEM (H)
WS-014(1.5-2.0)072613	7/26/13	910	X		9	X	X	X	X	X
WS-014(5.5-6.0)072613		920	X		9	X	X	X	X	X
WS-012(1.5-2.0)072613		950	X		9	X	X	X	X	X
WS-012(5.0-5.5)072613		1000	X		9	X	X	X	X	X
WS-010(1.5-2.0)072613		1020	X		9	X	X	X	X	X
WS-010(3.5-4.0)072613		1030	X		9	X	X	X	X	X
WS-005(surface)072613		1100	X		9	X	X	X	X	X
WS-011(1.5-2.0)072613		1140	X		9	X	X	X	X	X
WS-011(5.0-5.5)072613		1150	X		9	X	X	X	X	X
WS-003(surface)072613		1215	X		9	X	X	X	X	X
WS-002(surface)072613		1245	X		9	X	X	X	X	X
WS-018(surface)072613		1230	X		9	X	X	X	X	X

7 Turnaround Time Requested (TAT) (please circle)

Standard (5 day) 4 day

72 hour 48 hour 24 hour

8 Data Package (circle if required)

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

EDD (circle if required)

Locus EIM (default)
Other _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	7/26/13	1830			

9

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Received by [signature] Date 7/27/13 Time 0935

Temperature Upon Receipt 0.7-5.0 °C

Custody Seals Intact? Yes No

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 140733 Sample # 7142313-31

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

2 of 2

SCR#: _____

1 Client Information

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower, AR

ExxonMobil PM: Scott Bushboe

Cost Center/AFE:

Consultant/Office: Arcadis

Consultant PM: Steve Barrick

Consultant Phone #:

Sampler: Jason Waldron / H. Van Aller

4 Matrix

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

3 Grab / Composite

2 Sample Identification | Collected: Date | Time

5 Analyses Requested — Preservation Code

Total # of Containers | VOCs 8260 (H) | PAHs 8270SIM (H) | BCRA metals V, Ni, Ca, Mg Hardness (N) | Diss Metals (N) | Oil and Grease HEM (H)

Sample Identification	Date	Time	Grab	Composite	Matrix	Total # of Containers	VOCs 8260 (H)	PAHs 8270SIM (H)	BCRA metals V, Ni, Ca, Mg Hardness (N)	Diss Metals (N)	Oil and Grease HEM (H)	Remarks
WS-007(0.5-1.0)072613	7/26/13	1320	X		Water X	9	X	X	X	X	X	
WS-006(0.5-1.0)072613		1345	X		Water X	9	X	X	X	X	X	
WS-006(0.5-1.0)072613MS/MSD		1345	X		Water X	18	X	X	X	X	X	MS/MSD
WS-001(0.5-1.0)072613		1410	X		Water X	9	X	X	X	X	X	
WS-EB-11-072613		1700	X		Water X	7	X	X	X	X		
WS-TB-107-072613	↓	—	X		Water X	2	X					

Preservation Codes

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

6 Remarks

* Lab to filter and preserve diss metals upon receipt

7 Turnaround Time Requested (TAT) (please circle)

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

8 Data Package (circle if required)

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

EDD (circle if required)

Locus EIM (default)
Other _____

Relinquished by	Date	Time	Received by	Date	Time
H Van Aller	7/26/13	1830			
Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____			Received by	7/27/13	0935

Temperature Upon Receipt 0.7-5.0 °C

Custody Seals Intact? (Yes) No

9

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Issued by Dept. 40 Management

7053.01

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

Carolyn M. Cyms A# 14739, Gr# 1407335, Sample 7142313-31

From: Parmelee, Rhiannon [Rhiannon.Parmelee@arcadis-us.com]

Sent: Saturday, July 27, 2013 2:34 PM

To: Kathy Klinefelter; Van Aller, Hans; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer

Cc: Molina, Joe; Lipka, Shelby; Pritchard, Jamie

Subject: RE: Mayflower COCs Surface water sampling 072613

Email rush results is fine (option #2).

Rhiannon Parmelee
ARCADIS
Office (303 471 3904) Cell (206 914 9625)

-------- Original message --------
From: Kathy Klinefelter <KKlinefelter@lancasterlabs.com>
Date: 07/27/2013 1:13 PM (GMT-06:00)
To: "Parmelee, Rhiannon" <Rhiannon.Parmelee@arcadis-us.com>,"Van Aller, Hans" <Hans.VanAller@arcadis-us.com>,"Mott, Lyndi" <Lyndi.Mott@arcadis-us.com>,"Barrick, Stephen" <Stephen.Barrick@arcadis-us.com>,"Brewer, Stacey" <Stacey.Brewer@arcadis-us.com>,"Kull, Valerie" <Valerie.Kull@arcadis-us.com>,SA Env Entry <SAEnvEntry@lancasterlabs.com>,"Capria, Dennis" <Dennis.Capria@arcadis-us.com>,"Rachel L. Kreamer" <RKreamer@lancasterlabs.com>,"McKenzie, Mary" <Mary.McKenzie@arcadis-us.com>,"Chandler, Jennifer" <Jennifer.Chandler@arcadis-us.com>
Cc: "Molina, Joe" <Joe.Molina@arcadis-us.com>,"Lipka, Shelby" <Shelby.Lipka@arcadis-us.com>,"Pritchard, Jamie" <Jamie.Pritchard@arcadis-us.com>
Subject: RE: Mayflower COCs Surface water sampling 072613

Does WS-007(0.5-1.0)072613 need to be voided and entered in its own group in order to issue the final report and EDD in 24 hours, or can we leave it entered with the rest of the 5 day group, email rush results for the sample on Tuesday, and then have it included in the final report and EDD issued when the 5 day TAT samples report?

From: Parmelee, Rhiannon [mailto:Rhiannon.Parmelee@arcadis-us.com]
Sent: Saturday, July 27, 2013 2:08 PM
To: Kathy Klinefelter; Van Aller, Hans; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Pritchard, Jamie
Subject: RE: Mayflower COCs Surface water sampling 072613

Yes, that is the correct sample id. The rest of the samples would be 5 day TAT. Thank you.

Rhiannon Parmelee
ARCADIS
Office (303 471 3904) Cell (206 914 9625)

A# 14739 , Gr# 1407335, Sample 7142313-31

-------- Original message --------
From: Kathy Klinefelter <KKlinefelter@lancasterlabs.com>
Date: 07/27/2013 11:59 AM (GMT-06:00)
To: "Parmelee, Rhiannon" <Rhiannon.Parmelee@arcadis-us.com>,"Van Aller, Hans" <Hans.VanAller@arcadis-us.com>,"Mott, Lyndi" <Lyndi.Mott@arcadis-us.com>,"Barrick, Stephen" <Stephen.Barrick@arcadis-us.com>,"Brewer, Stacey" <Stacey.Brewer@arcadis-us.com>,"Kull, Valerie" <Valerie.Kull@arcadis-us.com>,SA Env Entry <SAEnvEntry@lancasterlabs.com>,"Capria, Dennis" <Dennis.Capria@arcadis-us.com>,"Rachel L. Kreamer" <RKreamer@lancasterlabs.com>,"McKenzie, Mary" <Mary.McKenzie@arcadis-us.com>,"Chandler, Jennifer" <Jennifer.Chandler@arcadis-us.com>
Cc: "Molina, Joe" <Joe.Molina@arcadis-us.com>,"Lipka, Shelby" <Shelby.Lipka@arcadis-us.com>,"Pritchard, Jamie" <Jamie.Pritchard@arcadis-us.com>
Subject: RE: Mayflower COCs Surface water sampling 072613

Please confirm full sample ID for 24 hour request is WS-007(0.5-1.0)072613. The rest of the samples in the surface water group will still be on 5 day TAT, but we will try to have results for this one sample on Tuesday 7/30.

From: Parmelee, Rhiannon [mailto:Rhiannon.Parmelee@arcadis-us.com]
Sent: Saturday, July 27, 2013 8:49 AM
To: Kathy Klinefelter; Van Aller, Hans; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Pritchard, Jamie
Subject: RE: Mayflower COCs Surface water sampling 072613

Kathy -

The attached COC was a different from the "Downstream Areas Remedial Sampling Plan (DARSP)" that is kicking off today. For reference, we are using the letters "DA" for sediment/soils/SW associated with that sampling event. For example, a sediment sample ID will look like this: SED-DA-033(0.5-1.0). Obviously, that's more important on our end, but would help you understand when the samples are associated with that event.

And I am task managing both the daily surface water sampling (more from the office) and the DARSP sampling. DARSP a ridiculous acronym, but helps us keep that sampling separate from the other activities.

As for the additional cove samples collected yesterday, those should be the same analytes as the daily surface water sampling (meaning, don't worry about TSS or the alkylated PAHs). And I forgot yesterday when Hans asked me, but is it too late to move WS-007(0.5-1.0) from the 5-day TAT time to the 24-hour TAT. We had asked for 24-hour TAT because the client would like the two SH samples back as soon as possible, realizing that would be Tuesday because of the weekend.

And per Shelby's email yesterday regarding the weekend sampling, that list does include the sediment sampling for the DARSP. We will be starting with sediment sampling this week. (the only sediment sampling currently underway is associated with the DARSP sampling event).

Does this make more sense? I'm out in Arkansas through today and tomorrow. I'm going to attempt to catch up on emails from yesterday – but if you don't hear back on something specific, please re-send.

Rhiannon A# 14739, Gr# 1407335, Samples 7142313-31

From: Kathy Klinefelter [mailto:KKlinefelter@lancasterlabs.com]
Sent: Friday, July 26, 2013 10:57 PM
To: Van Aller, Hans; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie
Subject: RE: Mayflower COCs Surface water sampling 072613

Please clarify. Is the attached cove COC part of the Downstream Cove project, or from another cove? Are the 24 hour cove surface water results needed Monday or Tuesday? Tuesday would be the due date for 24 hours = 1 business day rush TAT. Also, please confirm the analyses requested for the cove surface water samples. The COC requests PAHs by SIM, but does not request TSS. Was TSS dropped for this set of cove samples and PAHs SIM added? Our understanding was that Lancaster would not be analyzing any Downstream Cove samples for PAHs SIM and that B&B would be analyzing all cove surface water samples for Alkylated PAHs. Thanks!

From: Van Aller, Hans [mailto:Hans.VanAller@arcadis-us.com]
Sent: Friday, July 26, 2013 9:19 PM
To: Kathy Klinefelter; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie
Subject: Mayflower COCs Surface water sampling 072613

Hello All
Attached are the COCs from today's surface water sampling activities.
Thanks,

Hans H. van Aller IV | Field Tech 3 | Hans.VanAller@arcadis-us.com
ARCADIS U.S., Inc. | 630 Plaza Drive, Suite 100 | Highlands Ranch, CO 80129
T. 720.344.3500 | M.720.635.0173| F. 720.344.3535
www.arcadis-us.com
ARCADIS, Imagine the result

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G-1407335

Environmental Sample Administration
Receipt Documentation Log

Client/Project: ExxonMobil

Date of Receipt: 7/27/13

Time of Receipt: 0935

Source Code: 50

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT131	1.7	TB	WI	Y	B	SH
2	↓	4.2	↓	↓	↓	↓	SW
3		1.4					SW
4		2.3					SO
5		0.7					SW
6		3.0					SW

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

~~1035~~ cmc (5) 7/27/13

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: 964 **Date/Time:** 7/27/13 1035

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2174.06

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G-1407335

Environmental Sample Administration
Receipt Documentation Log

Client/Project: ExxonMobil

Date of Receipt: 7/27/13

Time of Receipt: 0935

Source Code: 50

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
17	DT131	0.4	TB	WI	Y	B	SW + SH
18	↓	5.0	↓	↓	↓	↓	SW
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [signature] 964 **Date/Time:** 7/27/13 1035

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

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

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

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

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

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