ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

October 18, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/14/2013
Group Number: 1426124
SDG: PEM16
PO Number: B0086003.1301
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-014(1.5-2.0)101313 Filt Grab Surface Water	7235575
WS-014(5.5-6.0)101313 Filt Grab Surface Water	7235576
WS-012(1.5-2.0)101313 Filt Grab Surface Water	7235577
WS-012(5.0-5.5)101313 Filt Grab Surface Water	7235578
WS-010(1.5-2.0)101313 Filt Grab Surface Water	7235579
WS-010(3.5-4.0)101313 Filt Grab Surface Water	7235580
WS-006(0.5-1.0)101313 Filt Grab Surface Water	7235581
WS-006(0.5-1.0)101313MS Filt Grab Surface Water	7235582
WS-006(0.5-1.0)101313MSD Filt Grab Surface Water	7235583
WS-006(0.5-1.0)101313DUP Filt Grab Surface Water	7235584
WS-005(Surface)101313 Filt Grab Surface Water	7235585
WS-011(1.5-2.0)101313 Filt Grab Surface Water	7235586
WS-011(5.0-5.5)101313 Filt Grab Surface Water	7235587
WS-002(Surface)101313 Filt Grab Surface Water	7235588
WS-018(Surface)101313 Filt Grab Surface Water	7235589
WS-003(Surface)101313 Filt Grab Surface Water	7235590
WS-007(0.5-1.0)101313 Filt Grab Surface Water	7235591
WS-001(0.5-1.0)101313 Filt Grab Surface Water	7235592
WS-EB-90-101313 Filt Grab Water	7235593

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	ExxonMobil	Attn: Michael J. Firth

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

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1426124

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:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235575
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 08:10 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1601 SDG#: PEM16-01

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 lab 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	132881848002	10/18/2013 10:03	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:03	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235576
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 08:20 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1602 SDG#: PEM16-02

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	0.0166	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 lab 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	132881848002	10/18/2013 10:16	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:16	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235577
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 08:30 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1603 SDG#: PEM16-03

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	0.0173	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 lab 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	132881848002	10/18/2013 10:20	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:20	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 06:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235578
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 08:40 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1604 SDG#: PEM16-04

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	0.0183	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 lab 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	132881848002	10/18/2013 10:25	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:25	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 06:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235579
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 08:50 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1605 SDG#: PEM16-05

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	0.0178	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 lab 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	132881848002	10/18/2013 10:29	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:29	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235580
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 09:00 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1606 SDG#: PEM16-06

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	0.0182	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 lab 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	132881848002	10/18/2013 10:33	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:33	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 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)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235581
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 09:10 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1607 SDG#: PEM16-07BKG

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	0.0171	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 lab 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	132881848002	10/18/2013 09:34	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 09:34	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 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)101313MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235582
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 09:10 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1607 SDG#: PEM16-07MS

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	0.157	0.0068	0.0200	1
07046	Barium	7440-39-3	2.06	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0521	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.162	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.532	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.154	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0497	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.501	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00097	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab 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	132881848002	10/18/2013 09:46	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 09:46	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 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)101313MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235583
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 09:10 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1607 SDG#: PEM16-07MSD

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	0.156	0.0068	0.0200	1
07046	Barium	7440-39-3	2.06	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0521	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.203	0.0016	0.0150	1
07055	Lead	7439-92-1	0.159	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.531	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.155	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0491	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.497	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00093	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab 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	132881848002	10/18/2013 09:51	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 09:51	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 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)101313DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235584
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 09:10 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1607 SDG#: PEM16-07DUP

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 lab 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	132881848002	10/18/2013 09:42	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 09:42	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235585
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 09:30 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1608 SDG#: PEM16-08

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	0.0203	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 lab 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	132881848002	10/18/2013 10:37	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:37	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235586
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 10:00 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1609 SDG#: PEM16-09

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	0.0204	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 lab 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	132881848002	10/18/2013 10:41	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:41	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235587
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 10:10 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1610 SDG#: PEM16-10

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	0.0209	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 lab 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	132881848002	10/18/2013 10:46	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:46	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235588
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 10:20 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1611 SDG#: PEM16-11

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	0.0175	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 lab 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	132881848002	10/18/2013 10:50	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:50	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235589
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 10:30 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1612 SDG#: PEM16-12

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	0.0278	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 lab 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	132881848002	10/18/2013 10:54	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 10:54	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235590
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 10:40 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1613 SDG#: PEM16-13

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	0.0190	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 lab 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	132881848002	10/18/2013 11:07	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 11:07	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235591
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 11:00 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1614 SDG#: PEM16-14

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	0.0235	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 lab 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	132881848002	10/18/2013 11:11	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 11:11	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)101313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235592
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 11:10 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1615 SDG#: PEM16-15

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	0.0171	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 lab 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	132881848002	10/18/2013 11:15	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 11:15	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-EB-90-101313 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7235593
LL Group # 1426124
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/13/2013 11:40 by HVA

Submitted: 10/14/2013 11:05
Reported: 10/18/2013 12:28

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

M1616 SDG#: PEM16-16EB*

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	N.D.	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 lab 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	132881848002	10/18/2013 11:20	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132881848002	10/18/2013 11:20	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132885713004	10/17/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132881848002	10/16/2013 11:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132885713004	10/16/2013 16:30	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis Group Number: 1426124
Reported: 10/18/13 at 12:28 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 132881848002	Sample number(s): 7235575-7235593								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	105		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	98		90-110		
Batch number: 132885713004	Sample number(s): 7235575-7235593								
Mercury	N.D.	0.00006 0	0.00020	mg/l	96		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: 132881848002	Sample number(s): 7235575-7235593 UNSPK: 7235581 BKG: 7235581								
Arsenic	105	104	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	0	20	0.0171	0.0167	2 (1)	20
Cadmium	104	104	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	102	102	76-120	0	20	N.D.	N.D.	0 (1)	20
Lead	108	106	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	106	106	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	99	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	100	99	90-117	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132885713004	Sample number(s): 7235575-7235593 UNSPK: 7235581 BKG: 7235581								
Mercury	97	93	80-120	4	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 Environmental

Acct. # 14739 | For Eurofins Lancaster Laboratories Environmental use only: Group # 1426124 Sample # 7235575-93

Instructions on reverse side correspond with circled numbers.

2 of 3

SCR#: _____

1 Client Information

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower, AR

ExxonMobil PM: Scott Bushnoe | Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Barrick | Consultant Phone #: 919-302-6799

Sampler: Hans Van Aller / Ryan Lewis

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

3 Grab / Composite

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 + pressure diss metals upon receipt

2 Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	H: VOCs 8260B	P: PAH 8270 SIM	P: RCRA Metals + hardness Ni, Ca, Mg	P: Diss Metals	H: HEM Oil & Grease
WS-003 (Surface) 101213	10-12-13	1300	X		9	X	X	X	X	X
WS-007 (0.5-1.0) 101213	10-12-13	1320	X		9	X	X	X	X	X
WS-001 (0.5-1.0) 101213	10-12-13	1330	X		9	X	X	X	X	X
WS-EB-89-101213	10-12-13	1400	X		7	X	X	X	X	
DUP-WS-101-101213	10-12-13	—	X		9	X	X	X	X	X
WS-014 (1.5-2.0) 101313	10-13-13	0810	X		9	X	X	X	X	X
WS-014 (5.5-6.0) 101313	10-13-13	0820	X		9	X	X	X	X	X
WS-012 (1.5-2.0) 101313	10-13-13	0830	X		9	X	X	X	X	X
WS-012 (5.0-5.5) 101313	10-13-13	0840	X		9	X	X	X	X	X
WS-010 (1.5-2.0) 101313	10-13-13	0850	X		9	X	X	X	X	X
WS-010 (3.5-4.0) 101313	10-13-13	0900	X		9	X	X	X	X	X
WS-006 (0.5-1.0) 101313	10-13-13	0910	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
	10-13-13	1600			
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other Southwest					
Temperature Upon Receipt 0.9-2.8°C			Custody Seals Intact? (Yes) No		

9 Received by: _____ Date: 10-14-13 Time: 1105

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 — For Eurofins Lancaster Laboratories Environmental use only — Group # 1426124 Sample # 7235575-93

Instructions on reverse side correspond with circled numbers.

3 of 3

1 Client Information

Facility #/SID	Mayflower Pipeline Incident
Site Address	Mayflower, AR
ExxonMobil PM	Scott Bushroe
Cost Center/AFE	
Consultant/Office	ARCADIS
Consultant PM	Steve Barrick
Consultant Phone #	919-302-6799
Sampler	Hans Van Aller / Ryan Lewis

SCR#: _____

4 Matrix

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

5 Analyses Requested — Preservation Code

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOCs 8260B (H)	PAH 8270SIM (H)	RCRA Metals + hardness Ni, V, Ca, Na (N)	Diss Metals (N)	HEM Oil & Grease (H)	6 Remarks
WS-006(0.5-1.0)101313 MS/MSD	10-13-13	0910	X		18	X	X	X	X	X	MS/MSD
WS-005(surface)101313	10-13-13	0930	X		9	X	X	X	X	X	
WS-011(1.5-2.0)101313	10-13-13	1000	X		9	X	X	X	X	X	
WS-011(5.0-5.5)101313	10-13-13	1010	X		9	X	X	X	X	X	
WS-002(surface)101313	10-13-13	1020	X		9	X	X	X	X	X	
WS-018(surface)101313	10-13-13	1030	X		9	X	X	X	X	X	
WS-003(surface)101313	10-13-13	1040	X		9	X	X	X	X	X	
WS-007(0.5-1.0)101313	10-13-13	1100	X		9	X	X	X	X	X	
WS-001(0.5-1.0)101313	10-13-13	1110	X		9	X	X	X	X	X	
WS-EB-90-101313	10-13-13	1140	X		7	X	X	X	X		
WS-TB-175-101313	10-13-13	—			2	X					

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

6 Remarks

Lab to filter + pressure 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
	10-13-13	1600			
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other Southwest			Received by	10-14-13	1105

Temperature Upon Receipt 0.9-2.8 °C

Custody Seals Intact? Yes / No

9

eurofins | Lancaster Laboratories

Grp # 1426124

Environmental Sample Administration Receipt Documentation Log

Client/Project: Exxon Mobil

Date of Receipt: 10-14-13

Time of Receipt: 1105

Source Code: 01

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.1°	TB	WI	Y	B	
2	↓	2.2°	↓	↓	↓	↓	
3		2.8°					
4		1.7°					
5		1.2°					
6	↓	1.1°	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

received (1) amber for WS-010(1.5-2.0)101213
& (1) amber for WS-010(3.5-4.0)101213 broken

Unpacker Signature/Emp#: [signature] 2123 **Date/Time:** 10-14-13 1200

Issued by Dept. 6042 Management

2174.06

eurofins | Lancaster Laboratories

Grp #1426124

Environmental Sample Administration Receipt Documentation Log

Client/Project: Exxon Mobil

Date of Receipt: 10-14-13

Time of Receipt: 1105

Source Code: 01

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1 7	DT121	1.9°	TB	WI	Y	B	
2 8	↓	0.9°	↓	↓	↓	↓	
3 9		2.2°					
4 10		1.5°					
5 11		1.4°					
6 12							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: 2123 **Date/Time:** 10-14-13 1200

Issued by Dept. 6042 Management

2174.06

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.