

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 22, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/16/2013

Group Number: 1426632

SDG: PEM24

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-014(1.5-2.0)101513 Filt Grab Surface Water	7238139
WS-014(5.5-6.0)101513 Filt Grab Surface Water	7238140
WS-012(1.5-2.0)101513 Filt Grab Surface Water	7238141
WS-012(5.0-5.5)101513 Filt Grab Surface Water	7238142
WS-010(1.5-2.0)101513 Filt Grab Surface Water	7238143
WS-010(3.5-4.0)101513 Filt Grab Surface Water	7238144
WS-006(0.5-1.0)101513 Filt Grab Surface Water	7238145
WS-006(0.5-1.0)101513MS Filt Grab Surface Water	7238146
WS-006(0.5-1.0)101513MSD Filt Grab Surface Water	7238147
WS-006(0.5-1.0)101513DUP Filt Grab Surface Water	7238148
WS-005(Surface)101513 Filt Grab Surface Water	7238149
WS-002(Surface)101513 Filt Grab Surface Water	7238150
WS-011(1.5-2.0)101513 Filt Grab Surface Water	7238151
WS-011(5.0-5.5)101513 Filt Grab Surface Water	7238152
WS-018(Surface)101513 Filt Grab Surface Water	7238153
WS-003(Surface)101513 Filt Grab Surface Water	7238154
WS-007(0.5-1.0)101513 Filt Grab Surface Water	7238155
WS-001(0.5-1.0)101513 Filt Grab Surface Water	7238156
WS-EB-92-101513 Filt Grab Water	7238157

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

ELECTRONIC ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

COPY TO

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
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1426632

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)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238139
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 09:10 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1514F SDG#: PEM24-01

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	0.0180	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	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:36	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238140
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 09:20 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

15F14 SDG#: PEM24-02

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	0.0190	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	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:40	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 07:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238141
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 09:30 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1512F SDG#: PEM24-03

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	0.0184	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	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:52	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238142
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 09:40 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

15F12 SDG#: PEM24-04

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	0.0185	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	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:56	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 07:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238143
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 14:30 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1510F SDG#: PEM24-05

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	0.0203	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	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:59	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 07:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238144
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 14:40 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

15F10 SDG#: PEM24-06

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	0.0211	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	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:03	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238145
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 14:50 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1506F SDG#: PEM24-07BKG

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	0.0189	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	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:13	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)101513MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238146
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 14:50 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1506F SDG#: PEM24-07MS

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	2.12	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0518	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.207	0.0016	0.0150	1
07055	Lead	7439-92-1	0.163	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.540	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.156	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0503	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.534	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 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	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:25	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)101513MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238147
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 14:50 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1506F SDG#: PEM24-07MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	0.154	0.0068	0.0200	1
07049	Cadmium	7440-43-9	2.08	0.00033	0.0050	1
07051	Chromium	7440-47-3	0.0516	0.00076	0.0050	1
07055	Lead	7440-47-3	0.206	0.0016	0.0150	1
07061	Nickel	7439-92-1	0.159	0.0047	0.0150	1
07036	Selenium	7440-02-0	0.530	0.0015	0.0100	1
07066	Silver	7782-49-2	0.150	0.0084	0.0200	1
07071	Vanadium	7440-22-4	0.0489	0.0021	0.0050	1
		7440-62-2	0.526	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l	mg/l	mg/l	
			0.0011	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	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:28	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)101513DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238148
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 14:50 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1506F SDG#: PEM24-07DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0189	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 6010B						
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A						

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	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 13:21	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238149
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 09:50 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1505F SDG#: PEM24-08

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	0.0291	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	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:07	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238150
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 15:00 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1502F SDG#: PEM24-09

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	0.0233	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	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:11	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238151
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 15:10 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1511F SDG#: PEM24-10

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	0.0225	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	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:15	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238152
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 15:20 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

15F11 SDG#: PEM24-11

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	0.0226	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	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:19	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238153
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 10:10 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1518F SDG#: PEM24-12

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	0.0280	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	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238154
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 10:20 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1503F SDG#: PEM24-13

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	0.0258	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	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:26	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238155
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 10:30 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1507F SDG#: PEM24-14

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	0.0331	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	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:38	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)101513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238156
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 10:40 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1501F SDG#: PEM24-15

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	0.0212	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	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:42	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Sample Description: WS-EB-92-101513 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7238157
LL Group # 1426632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/15/2013 15:30 by HVA

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

Submitted: 10/16/2013 09:25

Reported: 10/22/2013 20:34

1592F SDG#: PEM24-16EB*

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	0.0024 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 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	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132891848003	10/22/2013 14:46	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132895713005	10/18/2013 08:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132891848003	10/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132895713005	10/17/2013 15:00	Nelli S Markaryan	1

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

Quality Control SummaryClient Name: ExxonMobil c/o Arcadis
Reported: 10/22/13 at 08:34 PM

Group Number: 1426632

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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 132891848003	Sample number(s): 7238139-7238157								
Arsenic	N.D.	0.0068	0.0200	mg/l	103		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	103		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	108		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	107		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	102		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	98		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		
Batch number: 132895713005	Sample number(s): 7238139-7238157								
Mercury	N.D.	0.00006	0.00020	mg/l	108		80-120		
		0							

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 132891848003	Sample number(s): 7238139-7238157 UNSPK: 7238145 BKG: 7238145								
Arsenic	105	103	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	105	103	78-118	2	20	0.0189	0.0189	0 (1)	20
Cadmium	104	103	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	103	103	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	108	106	86-115	2	20	N.D.	N.D.	0 (1)	20
Selenium	104	100	75-125	4	20	N.D.	N.D.	0 (1)	20
Silver	101	98	75-125	3	20	N.D.	N.D.	0 (1)	20
Vanadium	107	105	90-117	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132895713005	Sample number(s): 7238139-7238157 UNSPK: 7238145 BKG: 7238145								
Mercury	112	111	80-120	1	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.

eurofins

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1426632 Sample # 7238139-57
Instructions on reverse side correspond with circled numbers.

10f2

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

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

For Eurofins Lancaster Laboratories Environmental use only
Acct. # 14739 Group # 1426632 Sample # 7238139-57
Instructions on reverse side correspond with circled numbers.

Group # 1426632 Sample # 7238139-57

Instructions on reverse side correspond with circled numbers

2072

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

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

Environmental Sample Administration
Receipt Documentation Log

1426632

Client/Project: MayflowerShipping Container Sealed: YES NODate of Receipt: 10/16/13Custody Seal Present * : YES NOTime of Receipt: 0925* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 60-1Package: 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	DT146	0.9	TB	WI	Y	B	
2		1.4					
3		2.7					
4		1.2					
5		0.6					
6		1.1					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Cash 3647 Date/Time: 10/16/13 1015

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 <u>limit of quantitation</u> , 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 $\geq$ 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 $\geq$ 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.