

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

September 20, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/16/2013

Group Number: 1419152

SDG: PEL50

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)091413 Filt Grab Surface Water	7199344
WS-014(5.5-6.0)091413 Filt Grab Surface Water	7199345
WS-012(1.5-2.0)091413 Filt Grab Surface Water	7199346
WS-012(5.0-5.5)091413 Filt Grab Surface Water	7199347
WS-010(1.5-2.0)091413 Filt Grab Surface Water	7199348
WS-010(3.5-4.0)091413 Filt Grab Surface Water	7199349
WS-006(0.5-1.0)091413 Filt Grab Surface Water	7199350
WS-005(Surface)091413 Filt Grab Surface Water	7199351
WS-002(Surface)091413 Filt Grab Surface Water	7199352
WS-011(1.5-2.0)091413 Filt Grab Surface Water	7199353
WS-011(5.0-5.5)091413 Filt Grab Surface Water	7199354
WS-018(Surface)091413 Filt Grab Surface Water	7199355
WS-003(Surface)091413 Filt Grab Surface Water	7199356
WS-007(0.5-1.0)091413 Filt Grab Surface Water	7199357
WS-001(0.5-1.0)091413 Filt Grab Surface Water	7199358
WS-EB-61-091413 Filt Grab Water	7199359
DUP-WS-87-091413 Filt Grab Surface Water	7199360

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

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

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 #: 1419152

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 not 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)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199344
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 08:30 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4141 SDG#: PEL50-01

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	0.0093	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	132601848004	09/19/2013 12:54	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 12:54	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-014(5.5-6.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199345
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 08:40 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4145 SDG#: PEL50-02

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	0.0118	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0016 J	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	132601848004	09/19/2013 12:58	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 12:58	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-012(1.5-2.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199346
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 08:50 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4121 SDG#: PEL50-03

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	0.0122	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	132601848004	09/19/2013 13:10	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:10	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199347
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 09:00 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4125 SDG#: PEL50-04

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	0.0091 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0147	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	132601848004	09/19/2013 13:14	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:14	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-010(1.5-2.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199348
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 09:20 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4101 SDG#: PEL50-05

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	0.0239	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	132601848004	09/19/2013 13:18	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:18	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-010(3.5-4.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199349
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 09:30 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4103 SDG#: PEL50-06

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	0.0262	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	132601848004	09/19/2013 13:22	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:22	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199350
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 09:40 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4060 SDG#: PEL50-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0244	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0018 J	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	132601848004	09/19/2013 12:30	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 12:30	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199351
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 10:00 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D405S SDG#: PEL50-08

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	0.0201	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0017 J	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	132601848004	09/19/2013 13:26	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:26	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface) 091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199352
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 10:20 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D402S SDG#: PEL50-09

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	0.0160	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	132601848004	09/19/2013 13:30	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:30	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199353
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 10:40 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4111 SDG#: PEL50-10

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	0.0196	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	132601848004	09/19/2013 13:34	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:34	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 05:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199354
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 10:50 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4115 SDG#: PEL50-11

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	0.0074 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0271	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	132601848004	09/19/2013 13:38	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:38	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 06:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-018 (Surface) 091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199355
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 11:20 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D418S SDG#: PEL50-12

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	0.0077 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0361	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	132601848004	09/19/2013 13:42	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:42	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 06:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-003 (Surface) 091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199356
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 11:30 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D403S SDG#: PEL50-13

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	0.0256	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	132601848004	09/19/2013 13:46	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:46	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 06:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199357
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 11:40 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4070 SDG#: PEL50-14

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	0.0188	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0015 J	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	132601848004	09/19/2013 13:58	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 13:58	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 06:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-001(0.5-1.0)091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199358
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 11:50 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4010 SDG#: PEL50-15

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	0.0196	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	132601848004	09/19/2013 14:01	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 14:01	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 06:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: **WS-EB-61-091413 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7199359**
 LL Group # **1419152**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 09/14/2013 12:30 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4E61 SDG#: PEL50-16EB

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	0.0022 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	132601848004	09/19/2013 14:05	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 14:05	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 06:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Sample Description: DUP-WS-87-091413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7199360
LL Group # 1419152
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/14/2013 by HV

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

Submitted: 09/16/2013 13:15

Reported: 09/20/2013 05:32

D4D87 SDG#: PEL50-17FD*

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	0.0262	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	132601848004	09/19/2013 14:09	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132601848004	09/19/2013 14:09	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132605713005	09/19/2013 06:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132601848004	09/18/2013 10:34	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132605713005	09/18/2013 14:45	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 09/20/13 at 05:32 AM

Group Number: 1419152

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: 132601848004	Sample number(s): 7199344-7199360								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		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	102		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	93		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	100		90-110		
Batch number: 132605713005	Sample number(s): 7199344-7199360								
Mercury	N.D.	0.00006	0.00020	mg/l	99		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: 132601848004	Sample number(s): 7199344-7199360 UNSPK: 7199350 BKG: 7199350								
Arsenic	103	102	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	100	101	78-118	1	20	0.0244	0.0240	1 (1)	20
Cadmium	103	102	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	99	100	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	102	102	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	103	103	86-115	0	20	0.0018 J	0.0018 J	3 (1)	20
Selenium	101	102	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	92	94	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	101	102	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132605713005	Sample number(s): 7199344-7199360 UNSPK: 7199353 BKG: 7199353								
Mercury	97	95	80-120	2	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



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1919152 Sample # 7199344-60
Instructions on reverse side correspond with circled numbers.

1 of 3

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks							
Preservation Code				Sediment		Water		Air		Total # of Containers															
Facility #/SID				Soil		Potable		Oil		H										SCR#:					
Site Address				Ground		NPDES		Air		N										Preservation Codes					
ExxonMobil PM				Surface		Air		Oil		R										H = HCl T = Thiosulfate					
Consultant/Office				Air		Oil		Oil		S										N = HNO ₃ B = NaOH					
Consultant PM				Composite		Oil		Oil		S										S = H ₂ SO ₄ O = Other					
Sampler				Grab		Oil		Oil		S										6					
Sample Identification				Collected		Oil		Oil		S										Remarks					
Date				Time		Oil		Oil		S										Lab to filter and pressure diss metals upon receipt					
WS-014(1.5-2.0)091413				9-14-13	0830	X			9	X	X	X	X	X	X										
WS-014(5.5-6.0)091413				9-14-13	0840	X			9	X	X	X	X	X	X										
WS-012(1.5-2.0)091413				9-14-13	0850	X			9	X	X	X	X	X	X										
WS-012(5.0-5.5)091413				9-14-13	0900	X			9	X	X	X	X	X	X										
WS-010(1.5-2.0)091413				9-14-13	0920	X			9	X	X	X	X	X	X										
WS-010(3.5-4.0)091413				9-14-13	0930	X			9	X	X	X	X	X	X										
WS-006(0.5-1.0)091413				9-14-13	0940	X			9	X	X	X	X	X	X										
WS-005(surface)091413				9-14-13	1000	X			9	X	X	X	X	X	X										
WS-002(surface)091413				9-14-13	1020	X			9	X	X	X	X	X	X										
WS-011(1.5-2.0)091413				9-14-13	1040	X			9	X	X	X	X	X	X										
WS-011(5.0-5.5)091413				9-14-13	1050	X			9	X	X	X	X	X	X										
WS-018(surface)091413				9-14-13	1120	X			9	X	X	X	X	X	X										

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1419152 Sample # 7199344-60

2 of 3

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested								6			
Facility #/SID Mayflower Pipeline Incident				Matrix				Preservation Code								SCR#:			
Site Address Mayflower, AR				Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>												Preservation Codes			
ExxonMobil PM Scott Bushroe				Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>												H = HCl T = Thiosulfate			
Consultant/Office ARCADIS				Oil <input type="checkbox"/>												N = HNO ₃ B = NaOH			
Consultant PM Steve Barrick				Soil <input type="checkbox"/> Water <input type="checkbox"/>												S = H ₂ SO ₄ O = Other			
Consultant Phone # 919 302 6799				Composite												Remarks			
Sampler Hans Van Aller/Dave Drost/Ryan Lewis				Total # of Containers															
2 Sample Identification		3 Collected		Grab		Composite													
		Date	Time																
WS-003 (Surface) 091413		9-14-13	1130	X				9	X	X	X	X	X						
WS-007 (0.5-1.0) 091413		9-14-13	1140	X				9	X	X	X	X	X						
WS-001 (0.5-1.0) 091413		9-14-13	1150	X				9	X	X	X	X	X						
WS-EB-61-091413		9-14-13	1230	X				7	X	X	X	X	X						
NJ-WS-87-091413		9-14-13	—	X				9	X	X	X	X	X						
WS-014 (1.5-2.0) 091513		9-15-13	0850	X				9	X	X	X	X	X						
WS-014 (5.5-6.0) 091513		9-15-13	0900	X				9	X	X	X	X	X						
WS-012 (1.5-2.0) 091513		9-15-13	0920	X				9	X	X	X	X	X						
WS-012 (5.0-5.5) 091513		9-15-13	0930	X				9	X	X	X	X	X						
WS-010 (1.5-2.0) 091513		9-15-13	0940	X				9	X	X	X	X	X						
WS-010 (3.5-4.0) 091513		9-15-13	0950	X				9	X	X	X	X	X						
WS-006 (0.5-1.0) 091513		9-15-13	1000	X				9	X	X	X	X	X						

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by		Date	Time	Received by		Date	Time
Standard	5 day	4 day	D.D.		9.15.13	1700				
72 hour	48 hour	24 hour								

8 Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier		Received by		Date	Time
Type I - Full	Type VI (Raw Data)	Locus EIM (default)	Other	UPS	FedEx	Other Southwest	Annalise H. Owen	9/16/13	1315
NJ Reduced	Other	Temperature Upon Receipt 0.5-4.0°C				Custody Seals Intact? Yes			

Environmental Sample Administration
Receipt Documentation Log

1419152

Client/Project: XOM - Mayflower
 Date of Receipt: 9/16/13
 Time of Receipt: 1315
 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
X9	DT146	0.7	TB	WI	Y	B	
X8		1.9					
X9		1.1					
X10		1.0					
X11	↓	0.6	↓	↓	↓	↓	
6	_____						

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Annelise H. Owen / 210 Date/Time: 9/16/13 1330

Environmental Sample Administration
Receipt Documentation Log

1419152

Client/Project: XOM - Mayflower
 Date of Receipt: 9/16/13
 Time of Receipt: 1315
 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	DT146	4.0	TB	WI	Y	B	
2	↓	0.9	↓	↓	↓	↓	
3		0.5					
4		3.7					
5		0.8					
6		0.6					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Anneliese H. Owen /210 Date/Time: 9/16/13 1336

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 \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

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.