

## 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 12, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/07/2013

Group Number: 1417159

SDG: PEL29

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)090613 Filt Grab Surface Water	7189231
WS-014(5.5-6.0)090613 Filt Grab Surface Water	7189232
WS-012(1.5-2.0)090613 Filt Grab Surface Water	7189233
WS-012(5.0-5.5)090613 Filt Grab Surface Water	7189234
WS-010(1.5-2.0)090613 Filt Grab Surface Water	7189235
WS-010(3.5-4.0)090613 Filt Grab Surface Water	7189236
WS-006(0.5-1.0)090613 Filt Grab Surface Water	7189237
WS-005(Surface)090613 Filt Grab Surface Water	7189238
WS-002(Surface)090613 Filt Grab Surface Water	7189239
WS-011(1.5-2.0)090613 Filt Grab Surface Water	7189240
WS-011(5.0-5.5)090613 Filt Grab Surface Water	7189241
WS-018(Surface)090613 Filt Grab Surface Water	7189242
WS-003(Surface)090613 Filt Grab Surface Water	7189243
WS-007(0.5-1.0)090613 Filt Grab Surface Water	7189244
WS-001(0.5-1.0)090613 Filt Grab Surface Water	7189245
WS-EB-53-090613 Filt Grab Water	7189246
DUP-WS-83-090613 Filt Grab Surface Water	7189247

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

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

Respectfully Submitted,



Katherine A. Klinefelter  
Principal Specialist

(717) 556-7256

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Project Name: Mayflower, AR Pipeline Incident  
LLI Group #: 1417159

**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.

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Sample Description: **WS-014(1.5-2.0)090613 Filt Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7189231**  
 LL Group # **1417159**  
 Account # **14739**

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

Collected: 09/06/2013 09:35 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

1425- SDG#: PEL29-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0132	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:27	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:27	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 05:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189232  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 09:45 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

1455- SDG#: PEL29-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0125	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:31	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:31	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189233  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 10:05 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

1215- SDG#: PEL29-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0154	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
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:43	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:43	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189234  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 10:15 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

1250- SDG#: PEL29-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0139	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
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:47	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:47	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:47	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:47	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:47	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/11/2013 14:48	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:47	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:47	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:47	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-010(1.5-2.0)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189235  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 10:30 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

1015- SDG#: PEL29-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0199	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:51	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:51	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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



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Sample Description: WS-010(3.5-4.0)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189236  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 10:40 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

10-35 SDG#: PEL29-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0241	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:55	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:55	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-006(0.5-1.0)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189237  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 11:00 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

06-05 SDG#: PEL29-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0123	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
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:59	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:59	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-005 (Surface) 090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189238  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 11:30 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

05S-- SDG#: PEL29-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0126	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:04	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	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-002 (Surface) 090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189239  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 11:50 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

02S-- SDG#: PEL29-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	0.0068 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0111	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:08	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	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-011(1.5-2.0)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189240  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 12:00 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

11-15 SDG#: PEL29-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0117	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:12	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189241  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 12:10 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

11-50 SDG#: PEL29-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	0.0075 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0149	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
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:16	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189242  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 12:30 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

18S-- SDG#: PEL29-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0623	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:20	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	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) 090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189243  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 12:40 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

03S-- SDG#: PEL29-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0117	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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 19:02	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 19:02	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	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-007(0.5-1.0)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189244  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 13:10 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

07-05 SDG#: PEL29-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0048 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
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:32	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	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)090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189245  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 13:20 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

05-01 SDG#: PEL29-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0232	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
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:36	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

Sample Description: **WS-EB-53-090613 Filt Grab Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7189246**  
 LL Group # **1417159**  
 Account # **14739**

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

Collected: 09/06/2013 14:00 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

53EB- SDG#: PEL29-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	N.D.	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
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	132501848010	09/10/2013 20:40	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	Nelli S Markaryan	1

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

Sample Description: DUP-WS-83-090613 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7189247  
LL Group # 1417159  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/06/2013 by DD

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

Submitted: 09/07/2013 08:45

Reported: 09/12/2013 07:26

FD83- SDG#: PEL29-17FD\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0129	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
<b>SW-846 6010B</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
<b>SW-846 7470A</b>			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	

### 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	132501848010	09/10/2013 20:45	John P Hook	1
07046	Barium	SW-846 6010B	1	132501848010	09/10/2013 20:45	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132501848010	09/10/2013 20:45	John P Hook	1
07051	Chromium	SW-846 6010B	1	132501848010	09/10/2013 20:45	John P Hook	1
07055	Lead	SW-846 6010B	1	132501848010	09/10/2013 20:45	John P Hook	1
07061	Nickel	SW-846 6010B	1	132501848010	09/11/2013 14:52	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848010	09/10/2013 20:45	John P Hook	1
07066	Silver	SW-846 6010B	1	132501848010	09/10/2013 20:45	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132501848010	09/10/2013 20:45	John P Hook	1
00259	Mercury	SW-846 7470A	1	132505713008	09/11/2013 06:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848010	09/10/2013 09:48	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132505713008	09/10/2013 16:00	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: 09/12/13 at 07:26 AM

Group Number: 1417159

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: 132501848010	Sample number(s): 7189231-7189247								
Arsenic	N.D.	0.0068	0.0200	mg/l	104		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	103		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	103		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	104		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	92		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	99		90-110		
Batch number: 132505713008	Sample number(s): 7189231-7189247								
Mercury	N.D.	0.00006	0.00020	mg/l	96		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: 132501848010	Sample number(s): 7189231-7189247 UNSPK: 7189243 BKG: 7189243								
Arsenic	106	104	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	104	102	78-118	2	20	0.0117	0.0115	2 (1)	20
Cadmium	105	104	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	104	102	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	104	104	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	94	92	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	100	99	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132505713008	Sample number(s): 7189231-7189247 UNSPK: 7189242 BKG: 7189242								
Mercury	101	100	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.

# ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only  
Group # 1417159 Sample # 7189231-247  
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix				5 Analyses Requested						6 Remarks	
Facility #/SID <u>Mayflower Pipeline Incident</u>				Soil <input type="checkbox"/>	Water <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers	Preservation Code						SCR#: _____ Preservation Codes H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other	
Site Address <u>Mayflower, AR</u>								Sediment <input type="checkbox"/>	Ground <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Potable <input type="checkbox"/>	NPDES <input type="checkbox"/>	Air <input type="checkbox"/>		
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE		Consultant/Office <u>ARCADIS</u>				Consultant PM <u>Steve Barrick</u>				Consultant Phone # <u>919-302-6799</u>		Lab to filter and pressure diss. metals upon receipt	
Sampler <u>Dave Frost Ryan Lewis</u>				Composite				VOCs 8260B PAH 8270 SIM RCRA Metals + U <sub>1</sub> V <sub>2</sub> Ca <sub>1</sub> Mn <sub>2</sub> Diss. Metals HEM GI & Grease							
2 Sample Identification		Collected												Grab	
		Date	Time	Grab	Composite										
WS-014 (1.5-2.0) 090613	9-6-2013	935	X				9	X	X	X	X	X			
WS-014 (5.5-6.0) 090613	9-6-2013	945	X				9	X	X	X	X	X			
WS-012 (1.5-2.0) 090613	9-6-2013	1005	X				9	X	X	X	X	X			
WS-012 (5.0-5.5) 090613	9-6-2013	1015	X				9	X	X	X	X	X			
WS-010 (1.5-2.0) 090613	9-6-2013	1030	X				9	X	X	X	X	X			
WS-010 (3.5-4.0) 090613	9-6-2013	1040	X				9	X	X	X	X	X			
WS-006 (0.5-1.0) 090613	9-6-2013	1100	X				9	X	X	X	X	X			
WS-005 (surface) 090613	9-6-2013	1130	X				9	X	X	X	X	X			
WS-002 (surface) 090613	9-6-2013	1150	X				9	X	X	X	X	X			
WS-011 (1.5-2.0) 090613	9-6-2013	1200	X				9	X	X	X	X	X			
WS-011 (5.0-5.5) 090613	9-6-2013	1210	X				9	X	X	X	X	X			
WS-018 (surface) 090613	9-6-2013	1236	X				9	X	X	X	X	X			

  

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>Ryan Lewis</u>		Date <u>9.6.2013</u>	Time <u>1530</u>	Received by	Date	Time	9	
Standard	<u>5 day</u>	4 day	Relinquished by		Date	Time	Received by	Date	Time		
72 hour	48 hour	24 hour	Relinquished by		Date	Time	Received by	Date	Time		
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____			EDD (circle if required) Locus EIM (default) Other _____			Relinquished by Commercial Carrier		Received by	Date	Time	
						UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		<u>[Signature]</u>		<u>9/7/13</u>	<u>845</u>
Temperature Upon Receipt <u>0.7-4.6 °C</u>						Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					



Environmental Sample Administration  
Receipt Documentation Log

Client/Project: ExxonMobil

Shipping Container Sealed: YES NO

Date of Receipt: 9/7/13

Custody Seal Present \* : YES NO

Time of Receipt: 845

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

Source Code: 60-1

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.0	TB	WI	Y	B	
2	↓	2.3	↓	↓	↓	↓	
3	↓	2.2	↓	↓	↓	↓	
4	↓	0.7	↓	↓	↓	↓	
5	↓	0.8	↓	↓	↓	↓	
6	↓	4.6	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

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Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 9/7/13 1010

Issued by Dept. 6042 Management



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	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.

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