

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

August 28, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/24/2013

Group Number: 1414063

SDG: PEL02

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL) #

WS-014(1.5-2.0)082313 Filt Grab Surface Water	7173835
WS-014(5.5-6.0)082313 Filt Grab Surface Water	7173836
WS-012(1.5-2.0)082313 Filt Grab Surface Water	7173837
WS-012(5.0-5.5)082313 Filt Grab Surface Water	7173838
WS-010(1.5-2.0)082313 Filt Grab Surface Water	7173839
WS-010(3.5-4.0)082313 Filt Grab Surface Water	7173840
WS-006(0.5-1.0)082313 Filt Grab Surface Water	7173841
WS-005(Surface)082313 Filt Grab Surface Water	7173842
WS-002(Surface)082313 Filt Grab Surface Water	7173843
WS-018(Surface)082313 Filt Grab Surface Water	7173844
WS-011(1.5-2.0)082313 Filt Grab Surface Water	7173845
WS-011(5.0-5.5)082313 Filt Grab Surface Water	7173846
WS-003(Surface)082313 Filt Grab Surface Water	7173847
WS-007(0.5-1.0)082313 Filt Grab Surface Water	7173848
WS-001(0.5-1.0)082313 Filt Grab Surface Water	7173849
DUP-WS-75-082313 Filt Grab Surface Water	7173850
WS-EB-039-082313 Filt Grab Water	7173851

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

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1414063

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)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173835
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 11:50 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

14F-1 SDG#: PEL02-01

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	0.0076	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	132381848004	08/28/2013 03:08	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:08	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

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Sample Description: WS-014(5.5-6.0)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173836
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 11:55 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

14-F5 SDG#: PEL02-02

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	0.0121	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	132381848004	08/28/2013 03:13	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:13	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173837
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 12:20 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

12-F1 SDG#: PEL02-03

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	0.0110	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	132381848004	08/28/2013 03:25	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:25	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173838
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 12:25 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

12-F5 SDG#: PEL02-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0162	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the 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	132381848004	08/28/2013 03:29	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:29	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173839
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 12:45 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

10-F1 SDG#: PEL02-05

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	0.0109	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	132381848004	08/28/2013 03:33	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:33	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173840
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 12:55 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

10-F3 SDG#: PEL02-06

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	0.0213	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	132381848004	08/28/2013 03:37	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:37	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	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)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173841
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 13:10 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

06-F0 SDG#: PEL02-07

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	0.0098	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	132381848004	08/28/2013 02:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 02:44	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173842
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 13:45 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

05-FS SDG#: PEL02-08

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	0.0104	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	132381848004	08/28/2013 03:41	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:41	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

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Sample Description: WS-002 (Surface) 082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173843
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 08:20 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

02-FS SDG#: PEL02-09

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	0.0122	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	132381848004	08/28/2013 03:46	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:46	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

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Sample Description: WS-018 (Surface) 082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173844
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 14:55 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

18-FS SDG#: PEL02-10

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	0.0161	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the 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	132381848004	08/28/2013 03:50	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:50	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

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Sample Description: WS-011(1.5-2.0)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173845
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 14:20 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

11-F1 SDG#: PEL02-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0110	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	132381848004	08/28/2013 03:54	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:54	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 09:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173846
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 14:25 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

11-F5 SDG#: PEL02-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0108	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	132381848004	08/28/2013 03:58	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 03:58	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 10:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173847
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 15:10 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

03-FS SDG#: PEL02-13

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	0.0052	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	132381848004	08/28/2013 04:02	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 04:02	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 10:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

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Sample Description: WS-007(0.5-1.0)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173848
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 15:25 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

07-F0 SDG#: PEL02-14

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	0.0080 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0133	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	132381848004	08/28/2013 04:14	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 04:14	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 10:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	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)082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173849
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 15:35 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

01-05 SDG#: PEL02-15

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	0.0097	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	132381848004	08/28/2013 04:18	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 04:18	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 10:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: DUP-WS-75-082313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7173850
LL Group # 1414063
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/23/2013 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

-FD75 SDG#: PEL02-16FD

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	0.0091	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	132381848004	08/28/2013 04:23	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 04:23	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 10:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	Nelli S Markaryan	1

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

Sample Description: **WS-EB-039-082313 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7173851**
 LL Group # **1414063**
 Account # **14739**

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

Collected: 08/23/2013 16:00 by TM

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

Submitted: 08/24/2013 09:00

Reported: 08/28/2013 12:04

-EB39 SDG#: PEL02-17EB*

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	0.00081 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	132381848004	08/28/2013 04:27	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132381848004	08/28/2013 04:27	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132385713003	08/27/2013 10:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132381848004	08/27/2013 11:27	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132385713003	08/26/2013 16:20	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: 08/28/13 at 12:04 PM

Group Number: 1414063

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: 132381848004	Sample number(s): 7173835-7173851								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	98		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	99		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	101		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	88		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	100		90-110		
Batch number: 132385713003	Sample number(s): 7173835-7173851								
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: 132381848004	Sample number(s): 7173835-7173851 UNSPK: 7173841 BKG: 7173841								
Arsenic	101	104	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	101	101	78-118	0	20	0.0098	0.0093	6 (1)	20
Cadmium	101	101	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	101	101	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	101	101	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	103	103	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	100	101	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	90	89	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	102	103	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132385713003	Sample number(s): 7173835-7173851 UNSPK: 7173843 BKG: 7173843								
Mercury	100	99	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 # 1414063 Sample # 7783 7173835-51

Instructions on reverse side correspond with circled numbers.

CML 824/13(3)

pg. 1 of 2

1 Client Information				4 Matrix				5 Analyses Requested								SCR#: _____																																
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/>	Potable <input type="checkbox"/>	Ground <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Air <input type="checkbox"/>	Total # of Containers	Preservation Code								Preservation Codes																													
Site Address <u>Mayflower, AR</u>											<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">H</td> <td style="width: 25%;">N</td> <td style="width: 25%;">F</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								H	N	F															✓	✓	✓										
H	N	F																																														
✓	✓	✓																																														
ExxonMobil PM <u>Scott Bushroe</u>				Soil <input type="checkbox"/>				Water <input type="checkbox"/>				Oil <input type="checkbox"/>				Air <input type="checkbox"/>				6 Remarks <u>Lab to Filter & preserve Diss. Metals upon receipt</u>																												
Consultant/Office <u>Arcadis</u>																						Cost Center/AFE				Consultant Phone # <u>919-302-6799</u>																						
Consultant PM <u>Steve Barrick</u>				Composite <input type="checkbox"/>				Grab <input type="checkbox"/>				Date				Time				9																												
Sampler <u>Tyler Milburn / John Beasley</u>																						Sample Identification				Collected				Date				Time				9										
WS-014(1.5-2.0)082313												8/23/13				1150				✓																												
WS-014(5.5-6.0)082313																				1155				✓																								
WS-012(1.5-2.0)082313																				1220				✓																								
WS-012(5.0-5.5)082313																				1225				✓																								
WS-010(1.5-2.0)082313																				1245				✓																								
WS-010(3.5-4.0)082313																				1255				✓																								
WS-006(0.5-1.0)082313																				1310				✓																								
WS-005(surf)082313																				1345				✓																								
WS-002(surf)082313																				820				✓																								
WS-018(surf)082313																				1455				✓																								
WS-011(1.5-2.0)082313																				1420				✓																								
WS-011(5.0-5.5)082313																				1425				✓																								

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>Tyler Miller</u>		Date <u>8/23/13</u>	Time <u>1700</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)		EDD (circle if required)		Relinquished by Commercial Carrier			Received by		Date	Time	9
Type I - Full	Type VI (Raw Data)	NJ Reduced	Other	UPS <input checked="" type="checkbox"/> FedEx _____ Other _____			<u>[Signature]</u>		<u>8/24/13</u>	<u>900</u>	
Temperature Upon Receipt <u>0.8-2.7 °C</u>							Custody Seals Intact?		<u>Yes</u>	No	

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
 Group # 1414063 Sample # 7173835-51
Instructions on reverse side correspond with circled numbers.

pg. 2 of 2

1 Client Information				4 Matrix				5 Analyses Requested								6 Remarks																																																								
Facility #/SID <u>Mayflower Pipeline Incident</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"/>	Oil <input type="checkbox"/>	Total # of Containers	Preservation Code								Preservation Codes																																																				
Site Address <u>Mayflower, AR</u>												<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">H</td><td style="width: 25%;">N</td><td style="width: 25%;">T</td><td style="width: 25%;">O</td><td style="width: 25%;">S</td><td style="width: 25%;">B</td><td style="width: 25%;">A</td><td style="width: 25%;">C</td><td style="width: 25%;">D</td><td style="width: 25%;">E</td><td style="width: 25%;">F</td><td style="width: 25%;">G</td><td style="width: 25%;">H</td><td style="width: 25%;">I</td><td style="width: 25%;">J</td><td style="width: 25%;">K</td><td style="width: 25%;">L</td><td style="width: 25%;">M</td><td style="width: 25%;">N</td><td style="width: 25%;">O</td><td style="width: 25%;">P</td><td style="width: 25%;">Q</td><td style="width: 25%;">R</td><td style="width: 25%;">S</td><td style="width: 25%;">T</td><td style="width: 25%;">U</td><td style="width: 25%;">V</td><td style="width: 25%;">W</td><td style="width: 25%;">X</td><td style="width: 25%;">Y</td><td style="width: 25%;">Z</td> </tr> <tr> <td colspan="28" style="text-align: center;"> H = HCl T = Thiosulfate N = HNO₃ B = NaOH S = H₂SO₄ O = Other </td> </tr> </table>								H	N	T	O	S	B	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																					
H	N	T	O	S	B	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z																																										
H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																								
ExxonMobil PM <u>Scott Bushnoe</u>				Soil <input type="checkbox"/>				Water <input type="checkbox"/>				VOCs <u>8260B</u>				PAH <u>8270 SIM</u>				PCRA Metals + Ni, V, Cr, Mg <u>various</u>				Diss. Metals <u>HEM Oil & Grease</u>				Lab to Filter & preserve Diss. Metals upon receipt																																												
Cost Center/AFE																																																																								
Consultant/Office <u>ArcoDis</u>				Composite <input type="checkbox"/>				Grab <input type="checkbox"/>				9				8				9				Only 1 OPG. 1 Brake during pickup																																																
Consultant PM <u>Steve Barrick</u>																																																																								
Consultant Phone # <u>919-302-6799</u>				Soil <input type="checkbox"/>				Water <input type="checkbox"/>				9				8				9				Only 1 OPG. 1 Brake during pickup																																																
Sampler <u>Tyler Milburn / Johnny Reasley</u>																																																																								
2 Sample Identification			3 Collected		Soil <input type="checkbox"/> <th colspan="4" rowspan="2" style="text-align: center;">Water <input type="checkbox"/> <th colspan="4" rowspan="2" style="text-align: center;">9</th> <th colspan="4" rowspan="2" style="text-align: center;">8</th> <th colspan="4" rowspan="2" style="text-align: center;">9</th> <th colspan="2" rowspan="2" style="text-align: center;"> Only 1 OPG. 1 Brake during pickup </th> </th>				Water <input type="checkbox"/> <th colspan="4" rowspan="2" style="text-align: center;">9</th> <th colspan="4" rowspan="2" style="text-align: center;">8</th> <th colspan="4" rowspan="2" style="text-align: center;">9</th> <th colspan="2" rowspan="2" style="text-align: center;"> Only 1 OPG. 1 Brake during pickup </th>				9				8				9				Only 1 OPG. 1 Brake during pickup																																															
			Date	Time																																																																				
<u>WS-003 (Surface) 082313</u>			<u>8/23/13</u>	<u>1510</u>	9				8				9				8				9				Only 1 OPG. 1 Brake during pickup																																															
<u>WS-007 (O.S.-I.O) 082313</u>				<u>1525</u>																																																																				
<u>WS-001 (O.S.-I.O) 082313</u>				<u>1535</u>	9				8				9				8				9				Only 1 OPG. 1 Brake during pickup																																															
<u>Dup-WS-75-082313</u>				<u>-</u>																																																																				
<u>WS-EB-039-082313</u>				<u>1600</u>	7				8				9				8				9				Only 1 OPG. 1 Brake during pickup																																															
<u>WS-TB-131-082313</u>				<u>-</u>																																																																				

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day

72 hour 48 hour 24 hour

8 Data Package (circle if required)

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

EDD (circle if required)
 Locus EIM (default)
 Other _____

Relinquished by <u>[Signature]</u>	Date <u>8/23/13</u>	Time <u>1700</u>	Received by	Date	Time	9
Relinquished by	Date	Time	Received by	Date	Time	
Relinquished by	Date	Time	Received by	Date	Time	
Relinquished by Commercial Carrier			Received by	Date <u>8/24/13</u>	Time <u>900</u>	9
UPS <input checked="" type="checkbox"/> FedEx _____ Other _____			Custody Seals Intact? <u>Yes</u> No		Temperature Upon Receipt <u>0.8-2.7°C</u>	

Rachel L. Kreamer

A# 14739 Gr# 1414063 Samples 7173835-51

From: Chandler, Jennifer [Jennifer.Chandler@arcadis-us.com]
Sent: Monday, August 26, 2013 10:58 AM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter
Subject: RE: Collection time on a Surface Water from Saturday

Rachel,

For sample ID WS-001(0.5-1.0)082313, please use 1535.
For sample ID WS-014(5.5-6.0)082313, please use 1155.
Thank you for the update on the broken sample container. Please let us know if there are any issues, or need, for a repeat batch.

Thanks,

Jennifer Chandler | Scientist 2 | jennifer.chandler@arcadis-us.com ARCADIS U.S., Inc. |
630 Plaza Drive, Suite 100 | Highlands Ranch, CO, 80129 T. 303.471.3549 | F. 720.344.3535
www.arcadis-us.com Please consider the environment before printing this email.

-----Original Message-----

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Monday, August 26, 2013 8:31 AM
To: Chandler, Jennifer
Cc: Kathy Klinefelter
Subject: Collection time on a Surface Water from Saturday

Jennifer,

There was one collection time discrepancy for the surface water samples from Saturday.
The collection time on the chain for sample
WS-001(0.5-1.0)082313 is 1535. The labels say 1235. Which is correct?

Also one amber bottle of WS-014(5.5-6.0)082313 has a collection time of 1150. All others
match the chain and say 1155.

Finally one O&G bottle for Dup-WS-75-082313 was received broken. Unless the batch needs to
be repeated that should not be a problem.

Thanks,
Rachel

-----Original Message-----

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Monday, August 26, 2013 10:23 AM
To: Rachel L. Kreamer
Subject:

This E-mail was sent from "RNP367EC2" (MP 4001/LD140).

Scan Date: 08.26.2013 10:23:23 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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6-1414063
Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil
 Date of Receipt: 8/24/13
 Time of Receipt: 900
 Source Code: 60-1

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO
* Custody seal was intact unless otherwise noted in the discrepancy section
 Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.7	TB	WI	Y	B	
2	↓	1.9	↓	↓	↓	↓	
3	↓	2.5	↓	↓	↓	↓	
4	↓	0.8	↓	↓	↓	↓	
5	↓	1.8	↓	↓	↓	↓	
6	↓	1.1	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:
1 oil and Grease bottle of Dup-WS-75 received broken
1 amber of WS-014 (5.5-6.0) time=1150
WS-001 (0.5-1.0) time=1235

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 8/24/13 955

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.

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