

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 30, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/28/2013

Group Number: 1414709

SDG: PEL10

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL) #

WS-014(1.5-2.0)082713 Filt Grab Surface Water	7177405
WS-014(5.5-6.0)082713 Filt Grab Surface Water	7177406
WS-012(1.5-2.0)082713 Filt Grab Surface Water	7177407
WS-012(5.0-5.5)082713 Filt Grab Surface Water	7177408
WS-010(1.5-2.0)082713 Filt Grab Surface Water	7177409
WS-010(3.5-4.0)082713 Filt Grab Surface Water	7177410
WS-006(0.5-1.0)082713 Filt Grab Surface Water	7177411
WS-005(Surface)082713 Filt Grab Surface Water	7177412
WS-002(Surface)082713 Filt Grab Surface Water	7177413
WS-018(Surface)082713 Filt Grab Surface Water	7177414
WS-011(1.5-2.0)082713 Filt Grab Surface Water	7177415
WS-011(5.0-5.5)082713 Filt Grab Surface Water	7177416
WS-003(Surface)082713 Filt Grab Surface Water	7177417
WS-007(0.5-1.0)082713 Filt Grab Surface Water	7177418
WS-001(0.5-1.0)082713 Filt Grab Surface Water	7177419
DUP-WS-77-082713 Filt Grab Surface Water	7177420
WS-EB-043-082713 Filt Grab Water	7177421

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 #: 1414709

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

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

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177405
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 08:50 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2714F SDG#: PEL10-01

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	0.0080	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	132401848002	08/29/2013 21:14	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:14	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	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)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177406
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 09:00 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

27F14 SDG#: PEL10-02

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	0.0081	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	132401848002	08/29/2013 21:18	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:18	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177407
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 09:10 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2712F SDG#: PEL10-03

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	0.0075	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	132401848002	08/29/2013 21:29	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:29	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177408
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 09:20 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

27F12 SDG#: PEL10-04

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	0.0107	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	132401848002	08/29/2013 21:33	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177409
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 09:30 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2710F SDG#: PEL10-05

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	0.0076	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	132401848002	08/29/2013 21:37	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:37	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177410
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 09:40 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

27F10 SDG#: PEL10-06

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	0.010	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.0017 J	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	132401848002	08/29/2013 21:41	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:41	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	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)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177411
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 09:50 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2706F SDG#: PEL10-07

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	0.0110	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	132401848002	08/29/2013 20:51	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 20:51	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177412
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 10:20 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2705F SDG#: PEL10-08

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	0.0200	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	132401848002	08/29/2013 21:45	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:45	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

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Sample Description: WS-002 (Surface) 082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177413
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 10:40 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2702F SDG#: PEL10-09

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	0.0119	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	132401848002	08/29/2013 21:49	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:49	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

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

Sample Description: WS-018 (Surface) 082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177414
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 11:50 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2718F SDG#: PEL10-10

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	0.0429	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	132401848002	08/29/2013 21:53	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 08:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177415
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 11:00 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2711F SDG#: PEL10-11

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	0.0098	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.0017 J	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	132401848002	08/29/2013 21:57	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 21:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 09:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177416
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 11:15 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

27F11 SDG#: PEL10-12

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	0.0066	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	132401848002	08/29/2013 22:00	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 22:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 09:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

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Sample Description: WS-003 (Surface) 082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177417
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 12:00 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2703F SDG#: PEL10-13

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	0.0177	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	132401848002	08/29/2013 22:04	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 22:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 09:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	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)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177418
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 12:10 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2707F SDG#: PEL10-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0154	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
		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	132401848002	08/29/2013 22:16	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 22:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 09:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177419
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 12:30 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2701F SDG#: PEL10-15

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	0.0115	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	132401848002	08/29/2013 22:20	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 22:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 09:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: DUP-WS-77-082713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7177420
LL Group # 1414709
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/27/2013 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2777F SDG#: PEL10-16FD

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	0.0116	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	132401848002	08/29/2013 22:24	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 22:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 09:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	Nelli S Markaryan	1

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

Sample Description: **WS-EB-043-082713 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7177421**
 LL Group # **1414709**
 Account # **14739**

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

Collected: 08/27/2013 13:30 by TM

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

Submitted: 08/28/2013 09:35

Reported: 08/30/2013 15:06

2743F SDG#: PEL10-17EB*

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07046	Barium	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07055	Lead	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07066	Silver	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132401848002	08/29/2013 22:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	132405713005	08/30/2013 09:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132401848002	08/29/2013 08:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132405713005	08/29/2013 15:15	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: 08/30/13 at 03:06 PM

Group Number: 1414709

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: 132401848002	Sample number(s): 7177405-7177421								
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	98		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	98		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	101		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	96		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	110		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	103		90-110		
Batch number: 132405713005	Sample number(s): 7177405-7177421								
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: 132401848002	Sample number(s): 7177405-7177421 UNSPK: 7177411 BKG: 7177411								
Arsenic	102	103	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	100	100	78-118	1	20	0.0110	0.0115	4 (1)	20
Cadmium	99	98	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	101	100	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	96	96	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	102	101	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	97	96	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	109	108	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	103	102	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132405713005	Sample number(s): 7177405-7177421 UNSPK: 7177407 BKG: 7177407								
Mercury	99	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 # 1414709 Sample # 2177405-21

Instructions on reverse side correspond with circled numbers.

PS. 1 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								SCR#: _____																													
Site Address <u>Mayflower, AR</u>												<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td><td style="width: 5%;">H</td> </tr> <tr> <td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td> </tr> </table>								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H																																
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																
ExxonMobil PM <u>Scott Bushroe</u>				Soil <input type="checkbox"/>				Water <input type="checkbox"/>				Oil <input type="checkbox"/>				6 Remarks <u>Lab to filter & preserve Diss. Metals upon receipt</u>																																	
Cost Center/AFE																																																	
Consultant/Office <u>Arcedis</u>				Composite <input type="checkbox"/>				Grab <input type="checkbox"/>				Composite <input type="checkbox"/>																																					
Consultant PM <u>Steve Barrick</u>																																																	
Consultant Phone # <u>919-302-6799</u>				Soil <input type="checkbox"/>				Water <input type="checkbox"/>				Oil <input type="checkbox"/>																																					
Sampler <u>Tyler Milburn / Hans Van Aller</u>																																																	
2 Sample Identification		Collected		3				Total # of Containers				Analyses Requested																																					
Date	Time	Date	Time																																														
<u>WS-014(1.5-2.0)082713</u>	<u>8-27-13</u>	<u>850</u>	<u>✓</u>	Soil <input type="checkbox"/>				Water <input checked="" type="checkbox"/>				Oil <input type="checkbox"/>				Total # of Containers				Analyses Requested																													
<u>WS-014(5.5-6.0)082713</u>		<u>900</u>	<u>✓</u>																																														
<u>WS-012(1.5-2.0)082713</u>		<u>910</u>	<u>✓</u>	Soil <input type="checkbox"/>				Water <input checked="" type="checkbox"/>				Oil <input type="checkbox"/>				Total # of Containers				Analyses Requested																													
<u>WS-012(5.0-5.5)082713</u>		<u>920</u>	<u>✓</u>																																														
<u>WS-010(1.5-2.0)082713</u>		<u>930</u>	<u>✓</u>	Soil <input type="checkbox"/>				Water <input checked="" type="checkbox"/>				Oil <input type="checkbox"/>				Total # of Containers				Analyses Requested																													
<u>WS-010(3.5-4.0)082713</u>		<u>940</u>	<u>✓</u>																																														
<u>WS-006(0.5-1.0)082713</u>		<u>950</u>	<u>✓</u>	Soil <input type="checkbox"/>				Water <input checked="" type="checkbox"/>				Oil <input type="checkbox"/>				Total # of Containers				Analyses Requested																													
<u>WS-005(Sur Face)082713</u>		<u>1020</u>	<u>✓</u>																																														
<u>WS-002(Sur Face)082713</u>		<u>1040</u>	<u>✓</u>	Soil <input type="checkbox"/>				Water <input checked="" type="checkbox"/>				Oil <input type="checkbox"/>				Total # of Containers				Analyses Requested																													
<u>WS-018(Sur Face)082713</u>		<u>1150</u>	<u>✓</u>																																														
<u>WS-011(1.5-2.0)082713</u>		<u>1100</u>	<u>✓</u>	Soil <input type="checkbox"/>				Water <input checked="" type="checkbox"/>				Oil <input type="checkbox"/>				Total # of Containers				Analyses Requested																													
<u>WS-011(5.0-5.5)082713</u>		<u>1115</u>	<u>✓</u>																																														
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Jay Miller</u>				Date <u>8/27/13</u>				Time <u>1500</u>				Received by		Date		Time																													
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)				Relinquished by Commercial Carrier				Date				Time				Received by		Date		Time																													
Type I - Full				UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				Temperature Upon Receipt <u>0.4-2.4°C</u>				Custody Seals Intact? <u>(Yes)</u> No				Date <u>8/28/13</u>		Time <u>0935</u>																															
Type VI (Raw Data)				Locus EIM (default)																																													
NJ Reduced				Other _____																																													
Other _____																																																	

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

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Acct. # 14739

Group # 1414709

Sample # 7177405-21

pg. 2 of 2

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks		
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other				
Site Address <u>Mayflower, AR</u>						Total # of Containers VOCs 8260B PAH 8270 SIM RCRM Metals + Ni, V, Co, Mg Diss. Metals HEM oil & Grease											Lab to filter & preserve Diss. Metals upon receipt			
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																		
Consultant/Office <u>Arrodia</u>																				
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>																		
Sampler <u>Tyler Milburn / Hans Van Aller</u>				3																
2 Sample Identification			Collected		Grab	Composite														
Sample ID	Date	Time																		
<u>WS-003 (Surface) 082713</u>	<u>8/27/13</u>	<u>1200</u>	<input checked="" type="checkbox"/>																	
<u>WS-007 (0.5-1.0) 082713</u>		<u>1210</u>	<input checked="" type="checkbox"/>																	
<u>WS-001 (0.5-1.0) 082713</u>		<u>1230</u>	<input checked="" type="checkbox"/>																	
<u>Dup-WS-77-082713</u>			<input checked="" type="checkbox"/>																	
<u>WS-EB-043-082713</u>		<u>1330</u>	<input checked="" type="checkbox"/>																	
<u>WS-TB-134-082713</u>			<input checked="" type="checkbox"/>																	

7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Tyler Mills</u>		Date <u>8/27/13</u>	Time <u>1500</u>	Received by	Date	Time	
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	
								UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		<u>C. Esler</u>	
Temperature Upon Receipt <u>0.4-2.4 °C</u>								Custody Seals Intact? <u>(Yes)</u> No			

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

Environmental Sample Administration 1414709
Receipt Documentation Log

Client/Project: Mayflower Waters
 Date of Receipt: 8/28/13
 Time of Receipt: 0935
 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	D7146	2.3	TB	WI	Y	B	
2	↓	1.0	↓	↓	↓	↓	
3	↓	1.1	↓	↓	↓	↓	
4	↓	0.4	↓	↓	↓	↓	
5	↓	0.6	↓	↓	↓	↓	
6	↓	2.4	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Received 1 broken ob jar - WS-005 (surface) 082713 @ 1000 - Gr. 1414707

Unpacker Signature/Emp#: C. Eshel 3647 Date/Time: 8/28/13 1015

Issued by Dept. 6042 Management

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

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

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

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

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

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

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