

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

September 09, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/02/2013

Group Number: 1415756

SDG: PEL18

PO Number: B0086003.1301

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)083113 Filt Grab Surface Water	7182931
WS-014(5.5-6.0)083113 Filt Grab Surface Water	7182932
WS-012(1.5-2.0)083113 Filt Grab Surface Water	7182933
WS-012(5.0-5.5)083113 Filt Grab Surface Water	7182934
WS-010(1.5-2.0)083113 Filt Grab Surface Water	7182935
WS-010(3.5-4.0)083113 Filt Grab Surface Water	7182936
WS-006(0.5-1.0)083113 Filt Grab Surface Water	7182937
WS-005(Surface)083113 Filt Grab Surface Water	7182938
WS-002(Surface)083113 Filt Grab Surface Water	7182939
WS-011(1.5-2.0)083113 Filt Grab Surface Water	7182940
WS-011(5.0-5.5)083113 Filt Grab Surface Water	7182941
WS-018(Surface)083113 Filt Grab Surface Water	7182942
WS-003(Surface)083113 Filt Grab Surface Water	7182943
WS-007(0.5-1.0)083113 Filt Grab Surface Water	7182944
WS-001(0.5-1.0)083113 Filt Grab Surface Water	7182945
WS-EB-047-083113 Filt Grab Water	7182946
DUP-WS-80-083113 Filt Grab Surface Water	7182947

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
COPY TO		

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1415756

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)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182931
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 08:35 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M141F SDG#: PEL18-01

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	0.0117	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		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	132471848004	09/05/2013 10:30	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 10:30	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 06:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	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)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182932
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 08:45 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M145F SDG#: PEL18-02

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	0.0071 J	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	132471848004	09/05/2013 10:54	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 10:54	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182933
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 09:00 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M121F SDG#: PEL18-03

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	0.0085 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0165	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	132471848004	09/05/2013 10:58	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 10:58	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182934
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 09:10 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M125F SDG#: PEL18-04

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	0.0658	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	132471848004	09/05/2013 11:10	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:10	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182935
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 09:35 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M101F SDG#: PEL18-05

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	0.0359	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	132471848004	09/05/2013 11:14	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:14	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

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Sample Description: WS-010(3.5-4.0)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182936
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 09:45 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M105F SDG#: PEL18-06

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	0.0745	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	132471848004	09/05/2013 11:18	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:18	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	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)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182937
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 09:50 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M060F SDG#: PEL18-07

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	0.0225	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:22	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182938
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 10:15 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M05SF SDG#: PEL18-08

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	0.0186	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	132471848004	09/05/2013 11:26	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:26	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

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Sample Description: WS-002 (Surface) 083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182939
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 10:40 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M02SF SDG#: PEL18-09

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	0.0121	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	132471848004	09/05/2013 11:30	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:30	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

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

Sample Description: WS-011(1.5-2.0)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182940
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 11:15 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M111F SDG#: PEL18-10

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	0.0091 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0061	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	132471848004	09/05/2013 11:34	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:34	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

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Sample Description: WS-011(5.0-5.5)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182941
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 11:25 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M115F SDG#: PEL18-11

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	0.0105	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	0.000074 J	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	132471848004	09/05/2013 11:38	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:38	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182942
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 11:45 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M18SF SDG#: PEL18-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0073 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0610	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	0.00012 J	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	132471848004	09/05/2013 11:42	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:42	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

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Sample Description: WS-003 (Surface) 083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182943
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 11:55 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M03SF SDG#: PEL18-13

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	0.0074 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0102	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	132471848004	09/05/2013 11:46	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:46	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

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

Sample Description: WS-007(0.5-1.0)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182944
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 12:15 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M070F SDG#: PEL18-14

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	0.0075 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0199	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		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	132471848004	09/05/2013 11:58	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 11:58	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	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)083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182945
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 12:25 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

M010F SDG#: PEL18-15

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	0.0307	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	132471848004	09/05/2013 12:02	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 12:02	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-EB-047-083113 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7182946**
 LL Group # **1415756**
 Account # **14739**

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

Collected: 08/31/2013 13:00 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

ME47F SDG#: PEL18-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	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	132471848004	09/05/2013 12:06	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132471848004	09/05/2013 12:06	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Sample Description: DUP-WS-80-083113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7182947
LL Group # 1415756
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/31/2013 by HVA

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

Submitted: 09/02/2013 10:05

Reported: 09/09/2013 16:43

MD80F SDG#: PEL18-17FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0229	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	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07046	Barium	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07055	Lead	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07066	Silver	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	2	132471848004	09/05/2013 22:55	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132475713002	09/06/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132471848004	09/04/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132475713002	09/05/2013 15:30	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 09/09/13 at 04:43 PM

Group Number: 1415756

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: 132471848004	Sample number(s): 7182931-7182947								
Arsenic	N.D.	0.0068	0.0200	mg/l	105		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	104		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	106		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	107		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	107		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	106		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	95		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	99		90-110		
Batch number: 132475713002	Sample number(s): 7182931-7182947								
Mercury	N.D.	0.00006	0.00020	mg/l	102		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: 132471848004	Sample number(s): 7182931-7182947 UNSPK: 7182931 BKG: 7182931								
Arsenic	106	108	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	105	106	78-118	0	20	0.0117	0.0116	1 (1)	20
Cadmium	108	108	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	105	104	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	108	107	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	109	109	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	110	109	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	97	97	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	101	100	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132475713002	Sample number(s): 7182931-7182947 UNSPK: 7182939 BKG: 7182939								
Mercury	102	105	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 # 1415756 Sample # 7182931-47
Instructions on reverse side correspond with circled numbers.

1 of 3

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"/>	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>							Potable <input type="checkbox"/>	NPDES <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers	H	N	H							
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																		
Consultant/Office <u>Arcadis</u>																				
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 302 6799</u>																		
Sampler <u>Hans Van Aller / Dave Drost</u>																				
2 Sample Identification		3 Collected		Grab	Composite	Soil <input type="checkbox"/>	Water <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers											
Date	Time																			
<u>WS-014(1.5-2.0)083113</u>	<u>8/31/13</u>	<u>835</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-014(5.5-6.0)083113</u>		<u>845</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-012(1.5-2.0)083113</u>		<u>900</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-012(5.0-5.5)083113</u>		<u>910</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-010(1.5-2.0)083113</u>		<u>935</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-010(3.5-4.0)083113</u>		<u>945</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-066(0.5-1.0)083113</u>		<u>950</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-005(surf)083113</u>		<u>1015</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-002(surf)083113</u>		<u>1040</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-011(1.5-2.0)083113</u>		<u>1115</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-011(5.0-5.5)083113</u>		<u>1125</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>WS-018(surf)083113</u>		<u>1145</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H Van Aller</u>		Date <u>9/1/13</u>	Time <u>1530</u>	Received by		Date	Time	9								
Standard <input checked="" type="radio"/> 5 day 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		UPS _____ FedEx _____ Other <u>Southwest</u>		Received by <u>Delorana</u>		Date <u>9/2/13</u>	Time <u>1005</u>									
Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____		Temperature Upon Receipt <u>0.6-5.8 °C</u>		Custody Seals Intact?		<input checked="" type="radio"/> Yes <input type="radio"/> No										

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1415756 Sample # 7182931-47

Instructions on reverse side correspond with circled numbers.

2 of 3

1 Client Information				4 Matrix			5 Analyses Requested										6 Remarks																										
Preservation Code				Total # of Containers			Preservation Codes																																				
Facility #/SID <u>May flower Pipeline Incident</u>				Soil <input type="checkbox"/>	Water <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>H</td><td></td><td>N</td><td></td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>VOLs 8260B</td> <td>PAHs 8270 SIM</td> <td>ACRA metals Ni, V, Cr, Mg</td> <td>Diss Metals</td> <td>HEM Oil & Grease</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										H		N		H								VOLs 8260B	PAHs 8270 SIM	ACRA metals Ni, V, Cr, Mg	Diss Metals	HEM Oil & Grease								SCR#: _____ Preservation Codes: H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
H		N						H																																			
VOLs 8260B	PAHs 8270 SIM	ACRA metals Ni, V, Cr, Mg	Diss Metals	HEM Oil & Grease																																							
Site Address <u>May flower, AR</u>		ExxonMobil PM <u>Scott Bushroe</u>		Ground <input type="checkbox"/>		Surface <input checked="" type="checkbox"/>		Air <input type="checkbox"/>												7																							
Consultant/Office <u>Arcadis</u>		Cost Center/AFE		Potable <input type="checkbox"/>		NPDES <input type="checkbox"/>		Sediment <input type="checkbox"/>																																			
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302 6799</u>		Grab <input type="checkbox"/>		Composite <input type="checkbox"/>		Sampler <u>Hans Van Aller / Dave Drost</u>												9																							
Sample Identification		Collected		Date		Time		Standard		4 day		72 hour		48 hour		24 hour																											
WS-003 (Surface) 083113		8/31/13		1155		X		X		X		X		X		X																											
WS-007 (0.5-1.0) 083113		↓		1215		X		X		X		X		X		X																											
WS-001 (0.5-1.0) 083113		↓		1225		X		X		X		X		X		X																											
WS-EB-047-083113		↓		1300		X		X		X		X		X		X																											
DUP-WS-80-083113		↓				X		X		X		X		X		X																											
WS-014 (1.5-2.0) 090113		9/1/13		840		X		X		X		X		X		X																											
WS-014 (5.5-6.0) 090113		↓		850		X		X		X		X		X		X																											
WS-012 (1.5-2.0) 090113		↓		910		X		X		X		X		X		X																											
WS-012 (5.0-5.5) 090113		↓		920		X		X		X		X		X		X																											
WS-010 (1.5-2.0) 090113		↓		940		X		X		X		X		X		X																											
WS-010 (3.5-4.0) 090113		↓		950		X		X		X		X		X		X																											
WS-006 (0.5-1.0) 090113		↓		1000		X		X		X		X		X		X																											

Environmental Sample Administration
Receipt Documentation Log

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 9/2/13

Custody Seal Present * : YES NO

Time of Receipt: 1005

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

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.4	2.3	WI	Y	B	
2	↓	5.8	↓	↓	↓	↓	
3	↓	2.4	↓	↓	↓	↓	
4	↓	3.0	↓	↓	↓	↓	
5	↓	1.2	↓	↓	↓	↓	
6	↓	4.0	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: D. Neslund / 208 Date/Time: 9/2/13 1530

Environmental Sample Administration
Receipt Documentation Log

Grp # 1415756

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 9/2/13

Custody Seal Present * : YES NO

Time of Receipt: 1005

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

Source Code: 01

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
7 _x	DT121	2.3	TB	WI	Y	B	
8 ₂		2.3					
9 ₂		2.3					
10 ₄		0.6					
11 ₈		2.1					
12 ₈	↓	3.9	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Daneslund / 208 Date/Time: 9/2/13 1530

Environmental Sample Administration
Receipt Documentation Log

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 9/2/13

Custody Seal Present * : YES NO

Time of Receipt: 1005

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

Source Code: 01

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
13/1	DT121	4.2	TB	WI	Y	B	
2							
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Janeclund / 208 Date/Time: 9/2/13 1530

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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