

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

November 03, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/26/2013

Group Number: 1429407

SDG: PEM46

PO Number: B0086003.1301

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-018(Surface)102513 Filt Grab Surface Water	7253440
WS-003(Surface)102513 Filt Grab Surface Water	7253441
WS-005(Surface)102513 Filt Grab Surface Water	7253442
WS-014(1.5-2.0)102513 Filt Grab Surface Water	7253443
WS-014(5.5-6.0)102513 Filt Grab Surface Water	7253444
WS-012(1.5-2.0)102513 Filt Grab Surface Water	7253445
WS-012(5.0-5.5)102513 Filt Grab Surface Water	7253446
WS-010(1.5-2.0)102513 Filt Grab Surface Water	7253447
WS-010(3.5-4.0)102513 Filt Grab Surface Water	7253448
WS-006(0.5-1.0)102513 Filt Grab Surface Water	7253449
WS-006(0.5-1.0)102513MS Filt Grab Surface Water	7253450
WS-006(0.5-1.0)102513MSD Filt Grab Surface Water	7253451
WS-006(0.5-1.0)102513DUP Filt Grab Surface Water	7253452
WS-002(Surface)102513 Filt Grab Surface Water	7253453
WS-011(1.5-2.0)102513 Filt Grab Surface Water	7253454
WS-011(5.0-5.5)102513 Filt Grab Surface Water	7253455
WS-007(0.5-1.0)102513 Filt Grab Surface Water	7253456
WS-001(0.5-1.0)102513 Filt Grab Surface Water	7253457
WS-EB-102-102513 Filt Grab Water	7253458

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

COPY TO		
ELECTRONIC	ARCADIS	Attn: Emily Leamer
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ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Julie Foster
COPY TO		

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1429407

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 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-018 (Surface) 102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253440
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 08:40 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF01 SDG#: PEM46-01

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	0.0198	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	133011848006	11/02/2013 20:48	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 20:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

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Sample Description: WS-003 (Surface)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253441
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 09:00 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF02 SDG#: PEM46-02

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	0.0176	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	133011848006	11/02/2013 20:53	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 20:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

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Sample Description: WS-005 (Surface) 102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253442
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 09:30 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF03 SDG#: PEM46-03

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	0.0127	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	133011848006	11/02/2013 21:05	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

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Sample Description: WS-014(1.5-2.0)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253443
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 10:10 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF04 SDG#: PEM46-04

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	0.0157	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	133011848006	11/02/2013 21:09	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:09	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	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)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253444
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 10:20 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF05 SDG#: PEM46-05

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	0.0156	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	133011848006	11/02/2013 21:13	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

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Sample Description: WS-012(1.5-2.0)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253445
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 10:30 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF06 SDG#: PEM46-06

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	0.0162	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:17	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

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

Sample Description: WS-012(5.0-5.5)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253446
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 10:40 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF07 SDG#: PEM46-07

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	0.0169	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	133011848006	11/02/2013 21:21	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:21	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253447
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 11:00 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF08 SDG#: PEM46-08

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	0.0176	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	133011848006	11/02/2013 21:25	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:25	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253448
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 11:10 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF09 SDG#: PEM46-09

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	0.0175	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	133011848006	11/02/2013 21:29	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:29	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	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)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253449
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 11:30 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF10 SDG#: PEM46-10BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0161	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 20:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)102513MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253450
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 11:30 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF10 SDG#: PEM46-10MS

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	0.150	0.0068	0.0200	1
07046	Barium	7440-39-3	2.06	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0509	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.196	0.0016	0.0150	1
07055	Lead	7439-92-1	0.155	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.519	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0479	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.486	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00090	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	133011848006	11/02/2013 20:36	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 20:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)102513MSD Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253451
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 11:30 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF10 SDG#: PEM46-10MSD

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	0.148	0.0068	0.0200	1
07046	Barium	7440-39-3	2.04	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0503	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.191	0.0016	0.0150	1
07055	Lead	7439-92-1	0.152	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.508	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0471	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.479	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	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	133011848006	11/02/2013 20:40	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 20:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)102513DUP Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253452
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 11:30 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF10 SDG#: PEM46-10DUP

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	0.0168	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	133011848006	11/02/2013 20:32	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 20:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

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Sample Description: WS-002 (Surface)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253453
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 12:00 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF11 SDG#: PEM46-11

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	0.0166	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	133011848006	11/02/2013 21:33	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253454
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 12:20 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF12 SDG#: PEM46-12

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	0.0184	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	133011848006	11/02/2013 21:37	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:37	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	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)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253455
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 12:30 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF13 SDG#: PEM46-13

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	0.0183	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	133011848006	11/02/2013 21:41	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:41	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253456
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 12:40 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF14 SDG#: PEM46-14

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	0.0236	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	133011848006	11/02/2013 21:53	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

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Sample Description: WS-001(0.5-1.0)102513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7253457
LL Group # 1429407
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/25/2013 12:50 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF15 SDG#: PEM46-15

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	0.0157	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	133011848006	11/02/2013 21:57	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 21:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	Nelli S Markaryan	1

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

Sample Description: **WS-EB-102-102513 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7253458**
 LL Group # **1429407**
 Account # **14739**

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

Collected: 10/25/2013 13:40 by CP

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

Submitted: 10/26/2013 09:45

Reported: 11/03/2013 08:06

MYF16 SDG#: PEM46-16EB*

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	133011848006	11/02/2013 22:01	John P Hook	1
07046	Barium	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
07055	Lead	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
07066	Silver	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	133011848006	11/02/2013 22:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	133015713001	10/30/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	133011848006	10/29/2013 07:17	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	133015713001	10/29/2013 15:35	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: 11/03/13 at 08:06 AM

Group Number: 1429407

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: 133011848006	Sample number(s): 7253440-7253458								
Arsenic	N.D.	0.0068	0.0200	mg/l	98		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	96		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	102		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	95		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	95		90-110		
Batch number: 133015713001	Sample number(s): 7253440-7253458								
Mercury	N.D.	0.00006	0.00020	mg/l	97		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: 133011848006	Sample number(s): 7253440-7253458 UNSPK: 7253449 BKG: 7253449								
Arsenic	100	99	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	102	101	78-118	1	20	0.0161	0.0168	5 (1)	20
Cadmium	102	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	98	96	76-120	2	20	N.D.	N.D.	0 (1)	20
Lead	104	101	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	104	102	86-115	2	20	N.D.	N.D.	0 (1)	20
Selenium	98	99	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	96	94	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	97	96	90-117	2	20	N.D.	N.D.	0 (1)	20
Batch number: 133015713001	Sample number(s): 7253440-7253458 UNSPK: 7253449 BKG: 7253449								
Mercury	90	92	80-120	3	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 # 1429407 Sample # 725344C-58
Instructions on reverse side correspond with circled numbers.

1 OF 2

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks													
Facility #/SID MAYFLOWER PIPELINE INCIDENT				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Air <input type="checkbox"/>				Preservation Code										SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other													
Site Address MAYFLOWER, AR								<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">VOCs 8260B</td> <td style="width: 20%;">PAH 8270 SIM</td> <td style="width: 20%;">ACRA METALS + Ni, V, Cr, Mn</td> <td style="width: 20%;">DISS METALS</td> <td style="width: 20%;">HEAVY OIL & GREASE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												VOCs 8260B	PAH 8270 SIM	ACRA METALS + Ni, V, Cr, Mn	DISS METALS	HEAVY OIL & GREASE							
VOCs 8260B	PAH 8270 SIM	ACRA METALS + Ni, V, Cr, Mn	DISS METALS	HEAVY OIL & GREASE																											
ExxonMobil PM SCOTT BUSHROE		Cost Center/AFE		Total # of Containers				(Matrix and Analyses Requested columns)										6 LAB TO FILTER AND PRESERVE DISS METALS UPON RECEIPT.													
Consultant/Office AR CADIS		Consultant Phone # 919.302.6799																													
Sampler CLEMENT PAPAFIO / RYAN LEWIS				Grab <input type="checkbox"/> Composite <input type="checkbox"/>				(Matrix and Analyses Requested columns)										(Remarks column)													
2 Sample Identification		3 Collected																													
Sample ID	Location	Date	Time	Grab	Composite	Soil	Water	Oil	Total # of Containers	VOCs	PAH	ACRA METALS	DISS METALS	HEAVY OIL & GREASE																	
WS-018 (Surface)	102513	10-25-13	0840	X			X		9	X	X	X	X	X																	
WS-003 (Surface)	102513	10-25-13	0900	X			X		9	X	X	X	X	X																	
WS-005 (Surface)	102513	10-25-13	0930	X			X		9	X	X	X	X	X																	
WS-014 (1.5-2.0)	102513	10-25-13	1010	X			X		9	X	X	X	X	X																	
WS-014 (5.5-6.0)	102513	10-25-13	1020	X			X		9	X	X	X	X	X																	
WS-012 (1.5-2.0)	102513	10-25-13	1030	X			X		9	X	X	X	X	X																	
WS-012 (5.0-5.5)	102513	10-25-13	1040	X			X		9	X	X	X	X	X																	
WS-010 (1.5-2.0)	102513	10-25-13	1100	X			X		9	X	X	X	X	X																	
WS-010 (3.5-4.0)	102513	10-25-13	1110	X			X		9	X	X	X	X	X																	
WS-006 (0.5-1.0)	102513	10-25-13	1130	X			X		9	X	X	X	X	X																	
WS-002 (Surface)	102513	10-25-13	1200	X			X		9	X	X	X	X	X																	
WS-011 (1.5-2.0)	102513	10-25-13	1220	X			X		9	X	X	X	X	X																	

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <i>[Signature]</i>		Date 10-25-13		Time 1600		Received by <i>[Signature]</i>		Date 10/26/13		Time 900	
Standard 5 day 4 day 72 hour 48 hour 24 hour			Relinquished by _____		Date _____		Time _____		Received by _____		Date _____		Time _____	
8 Data Package (circle if required)			EDD (circle if required)		Relinquished by Commercial Carrier		Received by <i>[Signature]</i>		Date 10/26/13		Time 900			
Type I - Full Type VI (Raw Data) NJ Reduced Other _____			Locus EIM (default) Other _____		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Temperature Upon Receipt <u>04.10</u> °C		Custody Seals Intact? Yes 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.

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
 Group # 1479407 Sample # 7253440-58
 Instructions on reverse side correspond with circled numbers.

2 OF 2

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"/>	Ground <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Preservation Code										SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other				
Site Address <u>MAYFLOWER AR</u>								Soil <input type="checkbox"/>	Water <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers											
ExxonMobil PM <u>SCOTT BUSHROE</u>		Cost Center/AFE		VOCs 8260B PAH 8270 SIM ROA METAL + Ni, V, Cr, Mn DISS METALS HEM OIL & GREASE										⑥ LAB TO FILTER AND PRESERVE DISS METAL UPON RECEIPT.								
Consultant/Office <u>ARCADIS</u>		Consultant Phone # <u>919.302.6799</u>																				
Sampler <u>CLEMENT PAPAPIO / RYAN LEWIS</u>				③																		
2 Sample Identification		3 Collected		Grab	Composite																	
		Date	Time																			
<u>WS-011(5.0-5.5)102513</u>		<u>10-25-13</u>	<u>1236</u>	<input checked="" type="checkbox"/>																		
<u>WS-007(0.5-1.0)102513</u>		<u>10-25-13</u>	<u>1240</u>	<input checked="" type="checkbox"/>																		
<u>WS-001(0.5-1.0)102513</u>		<u>10-25-13</u>	<u>1250</u>	<input checked="" type="checkbox"/>																		
<u>WS-006(0.5-1.0)102513 MS/MSD</u>		<u>10-25-13</u>	<u>1130</u>	<input checked="" type="checkbox"/>																		<u>MS/MSD</u>
<u>WS-EB-102-102513</u>		<u>10-25-13</u>	<u>1340</u>	<input checked="" type="checkbox"/>																		
<u>WS-TB-186-102513</u>		<u>10-25-13</u>	<u>-</u>	<input checked="" type="checkbox"/>																		
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>		Date <u>10-25-13</u>	Time <u>1600</u>	Received by		Date	Time	9										
Standard <u>5 day</u> 4 day				Relinquished by		Date	Time	Received by		Date	Time											
72 hour 48 hour 24 hour				Relinquished by		Date	Time	Received by		Date	Time											
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____				Relinquished by Commercial Carrier		Received by		Date	Time									
								UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by <u>[Signature]</u>		Date <u>10/26/13</u>	Time <u>900</u>									
Temperature Upon Receipt <u>0.4-1.0 °C</u>						Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																

Environmental Sample Administration
Receipt Documentation Log

1429467

Client/Project: Exxon Mobil
 Date of Receipt: 10/26/13
 Time of Receipt: 900
 Source Code: C60-1

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

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.5	TB	WI	Y	B	
2	↓	1.0	↓	↓	↓	↓	
3	↓	1.0	↓	↓	↓	↓	
4	↓	0.8	↓	↓	↓	↓	
5	↓	0.4	↓	↓	↓	↓	
6	↓	0.7	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 230 Date/Time: 10/26/13 1000

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

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

Inorganic Qualifiers

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

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

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

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

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

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