

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 13, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/09/2013

Group Number: 1417374

SDG: PEL34

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL) #

WS-006(0.5-1.0)090813 Filt Grab Surface Water	7190429
WS-005(Surface)090813 Filt Grab Surface Water	7190430
WS-002(Surface)090813 Filt Grab Surface Water	7190431
WS-011(1.5-2.0)090813 Filt Grab Surface Water	7190432
WS-011(5.0-5.5)090813 Filt Grab Surface Water	7190433
WS-018(Surface)090813 Filt Grab Surface Water	7190434
WS-003(Surface)090813 Filt Grab Surface Water	7190435
WS-007(0.5-1.0)090813 Filt Grab Surface Water	7190436
WS-001(0.5-1.0)090813 Filt Grab Surface Water	7190437
DUP-WS-84-090813 Filt Grab Surface Water	7190438
WS-EB-55-090813 Filt Grab Water	7190439

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

COPY TO
ELECTRONIC ExxonMobil
COPY TO

Attn: Julie Foster

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1417374

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:**SW-846 6010B, Metals Dissolved**

Batch #: 132531848007 (Sample number(s): 7190429-7190439 UNSPK: 7190435 BKG: 7190435)

The duplicate RPD for the following analyte(s) exceeded the acceptance window:
Arsenic

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

Sample Description: WS-006(0.5-1.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190429
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 09:45 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

F0606 SDG#: PEL34-01

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	0.0102 J	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	0.0018 J	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	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 13:40	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	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-005 (Surface) 090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190430
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 10:05 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

5-SF- SDG#: PEL34-02

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	0.0076 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0444	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	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 13:44	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

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

Sample Description: WS-002 (Surface) 090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190431
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 10:30 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

2-SF- SDG#: PEL34-03

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	0.0150	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	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 13:56	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190432
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 10:40 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

1115F SDG#: PEL34-04

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	0.0076 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0084	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	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 14:00	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190433
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 10:50 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

1150F SDG#: PEL34-05

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	0.0182	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	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 14:04	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190434
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 11:15 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

-18SF SDG#: PEL34-06

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	0.0080 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0594	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	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 14:08	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190435
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 11:25 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

-3S-F SDG#: PEL34-07

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	0.0246	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	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 13:16	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190436
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 11:40 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

7051F SDG#: PEL34-08

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	0.0124	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	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 14:12	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	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)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190437
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 11:55 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

1051F SDG#: PEL34-09

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	0.0279	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	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 14:16	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Sample Description: DUP-WS-84-090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190438
LL Group # 1417374
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

FD84- SDG#: PEL34-10FD

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	0.0141	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	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 14:20	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Sample Description: **WS-EB-55-090813 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7190439**
 LL Group # **1417374**
 Account # **14739**

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

Collected: 09/08/2013 12:20 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 09:21

EBF55 SDG#: PEL34-11EB*

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	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	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132531848007	09/12/2013 14:24	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 08:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848007	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	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: 09/13/13 at 09:21 AM

Group Number: 1417374

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: 132531848007	Sample number(s): 7190429-7190439								
Arsenic	N.D.	0.0068	0.0200	mg/l	108		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	0.00077 J	0.00076	0.0050	mg/l	107		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	105		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	93		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	103		90-110		
Batch number: 132535713007	Sample number(s): 7190429-7190439								
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: 132531848007	Sample number(s): 7190429-7190439 UNSPK: 7190435 BKG: 7190435								
Arsenic	105	107	81-123	2	20	N.D.	0.0077 J	200* (1)	20
Barium	102	104	78-118	2	20	0.0246	0.0241	2 (1)	20
Cadmium	105	106	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	102	104	81-120	2	20	N.D.	N.D.	0 (1)	20
Lead	103	105	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	106	107	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	101	104	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	92	94	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	104	106	90-111	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132535713007	Sample number(s): 7190429-7190439 UNSPK: 7190429 BKG: 7190429								
Mercury	97	95	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 # 14734 Sample # 7190429-35
Instructions on reverse side correspond with circled numbers.

3 of 3

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"/>	Oil <input 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 <u>Mayflower, AR</u>										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">H</td><td style="width: 20%;">M</td><td style="width: 20%;">H</td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												H	M	H																																	
H	M	H																																																							
ExxonMobil PM <u>Scott Bughroe</u>		Cost Center/AFE		Soil <input type="checkbox"/>	Water <input type="checkbox"/>	NPDES <input type="checkbox"/>	Air <input type="checkbox"/>	Total # of Containers	<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%;">RCRA Metals ^{Progress} _{Ni, V, Cr, Mg}</td><td style="width: 20%;">Diss Metals</td><td style="width: 20%;">HEM Oil & Grease</td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td><td style="width: 20%;"></td> </tr> </table>										VOCS 8260B	PAH 8270 SIM	RCRA Metals ^{Progress} _{Ni, V, Cr, Mg}	Diss Metals	HEM Oil & Grease																	(3) Grab Composite																	
VOCS 8260B	PAH 8270 SIM	RCRA Metals ^{Progress} _{Ni, V, Cr, Mg}	Diss Metals						HEM Oil & Grease																																																
Consultant/Office <u>ARCADIS</u>				(6)																																																					
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6794</u>																																																							
Sampler <u>Dave Drost / Ryan Lewis</u>																																																									
2 Sample Identification			3 Collected																																																						
			Date	Time																																																					
WS-006 (O.S.-1.0) 090813			9-8-13	0945	X																																																				
WS-005 (surface) 090813			9-8-13	1005	X																																																				
WS-002 (surface) 090813			9-8-13	1030	X																																																				
WS-011 (L.S.-2.0) 090813			9-8-13	1040	X																																																				
WS-011 (S.O.-S.S) 090813			9-8-13	1050	X																																																				
WS-018 (surface) 090813			9-8-13	1115	X																																																				
WS-003 (surface) 090813			9-8-13	1125	X																																																				
WS-007 (O.S.-1.0) 090813			9-8-13	1140	X																																																				
WS-001 (O.S.-1.0) 090813			9-8-13	1155	X																																																				
DUP-WS-84-090813			9-8-13		X																																																				
WS-EB-55-090813			9-8-13	1220	X																																																				
WS-TB-144-090813			9-8-13	1300	X																																																				
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Ryan Lewis</u>		Date	Time	Received by		Date	Time	(9)																																													
Standard <u>5 day</u> 4 day																																																									
72 hour 48 hour 24 hour																																																									
8 Data Package (circle if required)				Relinquished by Commercial Carrier				Received by		Date	Time																																														
Type I - Full				UPS _____ FedEx _____ Other <u>Southwest</u>				<u>[Signature]</u>		<u>9/9/13</u>	<u>1210</u>																																														
Type VI (Raw Data)																																																									
NJ Reduced																																																									
Other _____																																																									
						Temperature Upon Receipt <u>0.3-25°C</u>		Custody Seals Intact?		(Yes) No																																															

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

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

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil

Shipping Container Sealed: YES NO

Date of Receipt: 9/9/13

Custody Seal Present * : YES NO

Time of Receipt: 1210

* 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	2.0	TB	WI	Y	B	
2	↓	0.5	↓	↓	↓	↓	
3	↓	1.7	↓	↓	↓	↓	
4	↓	0.9	↓	↓	↓	↓	OD + SW)
5	↓	2.5	↓	↓	↓	↓	
6	↓	0.4	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 9164 Date/Time: 9/9/13 1315

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil

Shipping Container Sealed: YES NO

Date of Receipt: 9/9/13

Custody Seal Present * : YES NO

Time of Receipt: 1210

* 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	DT121	2.1	TB	WI	Y	B	
8		0.3					
9		0.8					
10		1.7					
11		1.3					
12		1.9					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 964 Date/Time: 9/9/13 1315

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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