ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

August 11, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/05/2013
Group Number: 1409111
SDG: PEK08
PO Number: ARCADIS
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-014(1.5-2.0)080413 Filt Grab Surface Water	7150193
WS-014(5.5-6.0)080413 Filt Grab Surface Water	7150194
WS-012(1.5-2.0)080413 Filt Grab Surface Water	7150195
WS-012(5.0-5.5)080413 Filt Grab Surface Water	7150196
WS-010(1.5-2.0)080413 Filt Grab Surface Water	7150197
WS-010(3.5-4.0)080413 Filt Grab Surface Water	7150198
WS-006(0.5-1.0)080413 Filt Grab Surface Water	7150199
WS-005(Surface)080413 Filt Grab Surface Water	7150200
WS-011(1.5-2.0)080413 Filt Grab Surface Water	7150201
WS-011(5.0-5.5)080413 Filt Grab Surface Water	7150202
WS-003(Surface)080413 Filt Grab Surface Water	7150203
WS-002(Surface)080413 Filt Grab Surface Water	7150204
WS-018(Surface)080413 Filt Grab Surface Water	7150205
WS-007(0.5-1.0)080413 Filt Grab Surface Water	7150206
WS-001(0.5-1.0)080413 Filt Grab Surface Water	7150207
WS-EB-20-080413 Filt Grab Water	7150208
DUP-WS-66-080413 Filt Grab Surface Water	7150209

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
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1409111

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 #: 132181848005 (Sample number(s): 7150193-7150209 UNSPK: 7150199 BKG: 7150199)

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

Sample Description: WS-014(1.5-2.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150193
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 08:30 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4141F SDG#: PEK08-01

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	0.0104	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 07:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150194
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 08:40 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4145F SDG#: PEK08-02

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	0.0118	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	132181848005	08/09/2013 17:07	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:07	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 07:50	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150195
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 09:00 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4121F SDG#: PEK08-03

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	0.0096	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	132181848005	08/09/2013 17:18	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:18	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:18	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:18	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:18	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:18	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:02	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:18	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:18	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150196
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 09:10 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4125F SDG#: PEK08-04

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	0.0105	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	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	132181848005	08/09/2013 17:22	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:22	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:22	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:22	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:22	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:22	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:05	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:22	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:22	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150197
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 09:20 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4101F SDG#: PEK08-05

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	0.0111	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	132181848005	08/09/2013 17:25	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:25	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:25	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:25	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:25	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:25	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:09	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:25	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:25	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150198
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 09:30 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4103F SDG#: PEK08-06

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	0.0133	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:13	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:29	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150199
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 09:50 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4060F SDG#: PEK08-07

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	0.0116	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 07:24	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 16:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150200
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 10:20 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

405SF SDG#: PEK08-08

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	0.0080	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:17	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 05:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150201
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 10:40 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4111F SDG#: PEK08-09

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	0.0098	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:21	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150202
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 10:50 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4115F SDG#: PEK08-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0113	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	132181848005	08/09/2013 17:40	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:40	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:25	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150203
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 11:00 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

403SF SDG#: PEK08-11

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	0.0111	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	132181848005	08/09/2013 17:43	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:43	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:43	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:43	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:43	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:43	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:28	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:43	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:43	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150204
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 11:40 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

402SF SDG#: PEK08-12

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	0.0095	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	132181848005	08/09/2013 17:47	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:47	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:47	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:47	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:47	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:47	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:32	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:47	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:47	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150205
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 11:20 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

418SF SDG#: PEK08-13

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	0.0207	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	132181848005	08/09/2013 17:50	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 17:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 17:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 17:50	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 17:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 17:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:36	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 17:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 17:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150206
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 12:00 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4070F SDG#: PEK08-14

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	0.0185	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	0.0016 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	132181848005	08/09/2013 18:01	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 18:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 18:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 18:01	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 18:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 18:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:47	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 18:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 18:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150207
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 12:10 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

4010F SDG#: PEK08-15

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	0.0134	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	132181848005	08/09/2013 18:05	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 18:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 18:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 18:05	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 18:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 18:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:51	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 18:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 18:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: WS-EB-20-080413 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150208
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 16:00 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

EB20F SDG#: PEK08-16

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	0.00059 J	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:55	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 18:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Sample Description: DUP-WS-66-080413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7150209
LL Group # 1409111
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/04/2013 by JW

Submitted: 08/05/2013 10:10
Reported: 08/11/2013 08:13

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

DP66F SDG#: PEK08-17FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0112	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	132181848005	08/09/2013 18:12	John P Hook	1
07046	Barium	SW-846 6010B	1	132181848005	08/09/2013 18:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132181848005	08/09/2013 18:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	132181848005	08/09/2013 18:12	John P Hook	1
07055	Lead	SW-846 6010B	1	132181848005	08/09/2013 18:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	132181848005	08/09/2013 18:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	132181848005	08/10/2013 08:59	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848005	08/09/2013 18:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132181848005	08/09/2013 18:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	132185713006	08/08/2013 06:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848005	08/07/2013 10:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713006	08/07/2013 16:05	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1409111
Reported: 08/11/13 at 08:13 AM

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

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 132181848005	Sample number(s): 7150193-7150209								
Arsenic	N.D.	0.0068	0.0200	mg/l	98		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	99		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	97		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	108		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	98		90-110		
Batch number: 132185713006	Sample number(s): 7150193-7150209								
Mercury	N.D.	0.00006 0	0.00020	mg/l	92		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 132181848005	Sample number(s): 7150193-7150209 UNSPK: 7150199 BKG: 7150199								
Arsenic	101	100	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	99	98	78-118	1	20	0.0116	0.0110	5 (1)	20
Cadmium	98	98	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	100	99	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	96	96	75-125	0	20	N.D.	0.0105 J	200* (1)	20
Nickel	102	102	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	102	98	75-125	5	20	N.D.	N.D.	0 (1)	20
Silver	108	106	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	98	97	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132185713006	Sample number(s): 7150193-7150209 UNSPK: 7150202 BKG: 7150202								
Mercury	95	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

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1409111 Sample # 7150193-209 1 of 2

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility #/SID: MAYFLOWER PIPELINE INCIDENT

Site Address: MAYFLOWER, AR

ExxonMobil PM: SCOTT BUSHROE | Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: STEVE BARRICK | Consultant Phone #: 919 202 6799

Sampler: J. WALDRON / S. LIPKA

4 Matrix: Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Soil ☐ Water Oil ☐

5 Analyses Requested — Preservation Code: H, , N, , H

SCR#:

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, O = Other

6 Remarks: LAB TO FILTER & PRESERVE DISS. METALS UPON RECEIPT

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total # of Containers	VOCs 8260B (H)	PAHs 8270 SIM	RCRA Metals, V, Ni, Cu, Hard. (N)	DISS METALS	HEM OIL & GREASE (H)					
WS-014 (1.5-2.0) 080413	8/4/13	0830	X			X		9	X	X	X	X	X					
WS-014 (5.5-6.0) 080413	8/4/13	0840	X			X		9	X	X	X	X	X					
WS-012 (1.5-2.0) 080413	8/4/13	0900	X			X		9	X	X	X	X	X					
WS-012 (5.0-5.5) 080413	8/4/13	0910	X			X		9	X	X	X	X	X					
WS-010 (1.5-2.0) 080413	8/4/13	0920	X			X		9	X	X	X	X	X					
WS-010 (3.5-4.0) 080413	8/4/13	0930	X			X		9	X	X	X	X	X					
WS-[illegible] (0.5-1.0) 080413	8/4/13	0950	X			X		9	X	X	X	X	X					
WS-005 (Surface) 080413	8/4/13	1020	X			X		9	X	X	X	X	X					
WS-011 (1.5-2.0) 080413	8/4/13	1040	X			X		9	X	X	X	X	X					
WS-011 (5.0-5.5) 080413	8/4/13	1050	X			X		9	X	X	X	X	X					
WS-003 (Surface) 080413	8/4/13	1100	X			X		9	X	X	X	X	X					
WS-002 (Surface) 080413	8/4/13	1140	X			X		9	X	X	X	X	X					

7 Turnaround Time Requested (TAT) (please circle)

Standard, (5 day) circled, 4 day, 72 hour, 48 hour, 24 hour

Relinquished by	Date	Time	Received by	Date	Time
[signature]	8/4/13	1600			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ___ FedEx ___ Other SOUTHWEST			Received by [signature]	8.5.13	1010

9

8 Data Package (circle if required): Type I - Full; Type VI (Raw Data); NJ Reduced; Other ______

EDD (circle if required): Locus EIM (default); Other ______

Temperature Upon Receipt 0.3-3.0 °C

Custody Seals Intact? (Yes) circled 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.

7053 0713

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1409111 Sample # 7150193-209

Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information

Facility #/SID: MAYFLOWER PIPELINE INCIDENT

Site Address: MAYFLOWER, AR.

ExxonMobil PM: SCOTT BUSHROE | Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: STEVE BARRICK | Consultant Phone #: 919 202 6799

Sampler: J. WALDRON / S. LIPKA

4 Matrix: Sediment ☐ / Soil ☐; Water: Ground ☐ Surface ☒ / Potable ☐ NPDES ☐; Air ☐ / Oil ☐

5 Analyses Requested — Preservation Code

SCR#:

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total # of Containers	VOC's 8260B (H)	PAH's 8270 SIM	TOTAL METALS V, Ni, Ag, Hg (N)	DISS METALS	HEM OIL & GREASE (HA)
WS-018 (SURFACE) 080413	8/4/13	1120	X			X		9	X	X	X	X	X
WS-007 (0.5-1.0) 080413	8/4/13	1200	X			X		9	X	X	X	X	X
WS-001 (0.5-1.0) 080413	8/4/13	1240	X			X		9	X	X	X	X	X
WS-TB-115-080413	8/4/13	—	X			X		2	X				
WS-EB-20-080413	8/4/13		X			X		7	X	X	X	X	
DUP-WS-66-080413	8/4/13	—	X			X		9	X	X	X	X	X

7 Turnaround Time Requested (TAT) (please circle)

Standard | (5 day) circled | 4 day
72 hour | 48 hour | 24 hour

8 Data Package (circle if required): Type I - Full; Type VI (Raw Data); NJ Reduced; Other ____

EDD (circle if required): Locus EIM (default); Other ____

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	8/4/13	1600			
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other SOUTHWEST			Received by [signature]	8.5.13	1010

Temperature Upon Receipt 0.3-3.0 °C

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.

7053 0713

Rachel L. Kreamer Acct 14739, Gr. 1409111, Samples 7150193-209

From: Chandler, Jennifer [Jennifer.Chandler@arcadis-us.com]
Sent: Monday, August 05, 2013 4:47 PM
To: Rachel L. Kreamer
Subject: RE: More COC/Label Discrepancies

Rachel,

Please use WS-011(1.5-2.0), as listed on the COC.
As for sample WS-EB-20-080413, yes, please use 1600.

Thanks,

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

-----Original Message-----
From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Monday, August 05, 2013 2:41 PM
To: Chandler, Jennifer
Cc: Kathy Klinefelter
Subject: More COC/Label Discrepancies

Jennifer,

So sorry, but I have a few more questions. I attached chains and the first page of the doc log for the surface waters.

On the chain from 8/3, sample WS-011(1.5-2.0) is labeled WS-11(1.0-1.5).
What should we use on the report?

On the chain from 8/4, sample WS-EB-20-080413 has no collection time.
The labels list a collection time of 1600. Should we use 1600?

Thanks,
RAdchel

-----Original Message-----
From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Monday, August 05, 2013 4:34 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 08.05.2013 16:34:28 (-0400)
Queries to: 39Scanner@lancasterlabs.com

---

eurofins | Lancaster Laboratories

Environmental Sample Administration Receipt Documentation Log

1409111

Client/Project: Exxon Mobil

Date of Receipt: 8.5.13

Time of Receipt: 1010

Source Code: 01

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	↓	0.3	↓	↓	↓	↓	
3	↓	1.5	↓	↓	↓	↓	
4	↓	1.9	↓	↓	↓	↓	
5	↓	1.2	↓	↓	↓	↓	
6	↓	0.5	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

~~WS-011 (1.0~~ BCB 2299 ③ 8.5.13

WS-011 (1.5-2.0) = WS-011 (1.0-1.5) Gr.1409108+1409109

WS-EB-20 Time = 1600 Gr 1409110 - 1409111

Unpacker Signature/Emp#: Brianely Barclay 2299 **Date/Time:** 8.5.13 1213

Issued by Dept. 6042 Management

eurofins | Lancaster Laboratories

Environmental Sample Administration Receipt Documentation Log

1409111

Client/Project: Exxon Mobil

Date of Receipt: 8.5.13

Time of Receipt: 1010

Source Code: 01

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
#7	D#121	0.9	TB	WI	Y	B	
#8	↓	0.6	↓	↓	↓	↓	
#9		1.2					
#10	↓	3.0	↓				
#11	1396	2.4	ST				
#12	D#121	1.5	TB	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

_____

_____

_____

_____

_____

Unpacker Signature/Emp#: Brandy Barclay 2299 **Date/Time:** 8.5.13 1213

Issued by Dept. 6042 Management

2174.06

eurofins | Lancaster Laboratories

Environmental Sample Administration Receipt Documentation Log

1409111

Client/Project: Exxon mobil

Date of Receipt: 8.5.13

Time of Receipt: 1010

Source Code: 01

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
1B	D+121	1.0	TB	WI	Y	B	
1A	↓	2.9	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Brandy Barclay 2299 **Date/Time:** 8.5.13 1213

Issued by Dept. 6042 Management

2174.06

eurofins | Lancaster Laboratories Environmental

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 ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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