

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

July 29, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/22/2013

Group Number: 1405754

SDG: PEJ31

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)072013 Filt Grab Surface Water	7134342
WS-012(1.5-2.0)072013 Filt Grab Surface Water	7134343
WS-010(1.5-2.0)072013 Filt Grab Surface Water	7134344
WS-005(Surface)072013 Filt Grab Surface Water	7134345
WS-011(1.5-2.0)072013 Filt Grab Surface Water	7134346
WS-003(Surface)072013 Filt Grab Surface Water	7134347
WS-018(Surface)072013 Filt Grab Surface Water	7134348
WS-002(Surface)072013 Filt Grab Surface Water	7134349
WS-007(0.5-1.0)072013 Filt Grab Surface Water	7134350
WS-006(0.5-1.0)072013 Filt Grab Surface Water	7134351
WS-006(0.5-1.0)072013MS Filt Grab Surface Water	7134352
WS-006(0.5-1.0)072013MSD Filt Grab Surface Water	7134353
WS-006(0.5-1.0)072013DUP Filt Grab Surface Water	7134354
WS-001(0.5-1.0)072013 Filt Grab Surface Water	7134355
WS-EB-6-072013 Filt Grab Water	7134356
WS-014(1.5-2.0)072113 Filt Grab Surface Water	7134357
WS-012(1.5-2.0)072113 Filt Grab Surface Water	7134358
WS-010(1.5-2.0)072113 Filt Grab Surface Water	7134359
WS-005(Surface)072113 Filt Grab Surface Water	7134360
WS-011(1.5-2.0)072113 Filt Grab Surface Water	7134361
WS-018(Surface)072113 Filt Grab Surface Water	7134362
WS-003(Surface)072113 Filt Grab Surface Water	7134363
WS-002(Surface)072113 Filt Grab Surface Water	7134364
WS-007(0.5-1.0)072113 Filt Grab Surface Water	7134365
WS-006(0.5-1.0)072113 Filt Grab Surface Water	7134366
WS-001(0.5-1.0)072113 Filt Grab Surface Water	7134367
DUP-WS-59-072113 Filt Grab Surface Water	7134368
WS-EB-7-072113 Filt Grab Water	7134369

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
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1405754

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134342
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 08:20 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2014F SDG#: PEJ31-01

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	0.0129	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	132041848003	07/25/2013 15:22	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:22	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134343
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 08:35 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2012F SDG#: PEJ31-02

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	0.0119	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:26	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

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Sample Description: WS-010(1.5-2.0)072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134344
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 09:00 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2010F SDG#: PEJ31-03

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	0.0128	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	132041848003	07/25/2013 15:38	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:38	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134345
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 09:25 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2005F SDG#: PEJ31-04

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	0.0102	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:41	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

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Sample Description: WS-011(1.5-2.0)072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134346
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 10:05 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2011F SDG#: PEJ31-05

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	0.0095	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	132041848003	07/25/2013 15:45	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:45	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134347
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 10:25 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2003F SDG#: PEJ31-06

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	132041848003	07/25/2013 15:49	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:49	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134348
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 10:35 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2018F SDG#: PEJ31-07

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	0.0136	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	132041848003	07/25/2013 15:53	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:53	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface) 072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134349
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 10:55 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2002F SDG#: PEJ31-08

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	0.0128	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	132041848003	07/25/2013 15:57	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:57	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134350
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 11:25 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2007F SDG#: PEJ31-09

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	0.0205	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	132041848003	07/25/2013 16:01	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:01	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134351
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 11:35 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2006F SDG#: PEJ31-10BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0170	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	132041848003	07/25/2013 15:00	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:00	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072013MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134352
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 11:35 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2006F SDG#: PEJ31-10MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.143	0.0068	0.0200	1
07046	Barium	7440-39-3	1.98	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0474	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.193	0.0016	0.0150	1
07055	Lead	7439-92-1	0.146	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.491	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.141	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0477	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.494	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	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	132041848003	07/25/2013 15:11	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:11	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072013MSD Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134353
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 11:35 by LD

ExxonMobil

Submitted: 07/22/2013 15:40

Mobil Pipeline Company

Reported: 07/29/2013 15:53

PO Box 4416

Houston TX 77210-4416

2006F SDG#: PEJ31-10MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.150	0.0068	0.0200	1
07046	Barium	7440-39-3	2.03	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0493	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.200	0.0016	0.0150	1
07055	Lead	7439-92-1	0.154	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.508	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0488	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.508	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	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	132041848003	07/25/2013 15:15	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:15	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072013DUP Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134354
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 11:35 by LD

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

Submitted: 07/22/2013 15:40

Reported: 07/29/2013 15:53

2006F SDG#: PEJ31-10DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0169	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 15:07	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 05:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

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Sample Description: WS-001(0.5-1.0)072013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134355
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/20/2013 11:55 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2001F SDG#: PEJ31-11

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	0.0122	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	132041848003	07/25/2013 16:04	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:04	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: **WS-EB-6-072013 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7134356**
 LL Group # **1405754**
 Account # **14739**

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

Collected: 07/20/2013 14:45 by LD ExxonMobil
 Submitted: 07/22/2013 15:40 Mobil Pipeline Company
 Reported: 07/29/2013 15:53 PO Box 4416
 Houston TX 77210-4416

20E6F SDG#: PEJ31-12EB

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	0.0045 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	132041848003	07/25/2013 16:08	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:08	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-014(1.5-2.0)072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134357
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 08:35 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2114F SDG#: PEJ31-13

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	0.0131	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	132041848003	07/25/2013 16:12	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:12	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134358
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 08:55 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2112F SDG#: PEJ31-14

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	0.0131	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	132041848003	07/25/2013 16:23	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:23	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

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Sample Description: WS-010(1.5-2.0)072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134359
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 09:15 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2110F SDG#: PEJ31-15

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	0.0121	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:27	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134360
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 09:35 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2105F SDG#: PEJ31-16

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	0.0148	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	132041848003	07/25/2013 16:31	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:31	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134361
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 10:05 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2111F SDG#: PEJ31-17

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	132041848003	07/25/2013 16:35	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:35	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134362
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 10:25 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2118F SDG#: PEJ31-18

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	0.0158	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	132041848003	07/25/2013 16:39	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:39	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134363
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 10:35 by LD

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

Submitted: 07/22/2013 15:40

Reported: 07/29/2013 15:53

2103F SDG#: PEJ31-19

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	0.0153	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	132041848003	07/25/2013 16:42	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:42	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface) 072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134364
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 10:55 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2102F SDG#: PEJ31-20

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	0.0165	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132041848003	07/25/2013 16:46	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132045713003	07/25/2013 06:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848003	07/24/2013 15:35	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713003	07/24/2013 12:30	Nelli S Markaryan	1

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

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Sample Description: WS-007(0.5-1.0)072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134365
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 11:10 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2107F SDG#: PEJ31-21

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	0.0020 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	132041848004	07/25/2013 09:29	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:29	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 06:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

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Sample Description: WS-006(0.5-1.0)072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134366
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 11:20 by LD

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

Submitted: 07/22/2013 15:40

Reported: 07/29/2013 15:53

2106F SDG#: PEJ31-22

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	0.0194	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	132041848004	07/25/2013 09:33	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:33	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 06:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134367
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 11:40 by LD ExxonMobil
Mobil Pipeline Company
Submitted: 07/22/2013 15:40 PO Box 4416
Reported: 07/29/2013 15:53 Houston TX 77210-4416

2101F SDG#: PEJ31-23

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	0.0212	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	132041848004	07/25/2013 09:45	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:45	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 06:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: DUP-WS-59-072113 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7134368
LL Group # 1405754
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/21/2013 by LD

ExxonMobil

Submitted: 07/22/2013 15:40

Mobil Pipeline Company

Reported: 07/29/2013 15:53

PO Box 4416

Houston TX 77210-4416

MD59F SDG#: PEJ31-24FD

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	0.0190	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	132041848004	07/25/2013 09:48	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:48	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 06:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: **WS-EB-7-072113 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7134369**
 LL Group # **1405754**
 Account # **14739**

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

Collected: 07/21/2013 12:15 by LD

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

Submitted: 07/22/2013 15:40

Reported: 07/29/2013 15:53

21E7F SDG#: PEJ31-25EB*

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	0.0018 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	132041848004	07/25/2013 09:52	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:52	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 06:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/29/13 at 03:53 PM

Group Number: 1405754

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: 132041848003	Sample number(s): 7134342-7134364								
Arsenic	N.D.	0.0068	0.0200	mg/l	96		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	98		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	99		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	102		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	101		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	100		90-110		
Batch number: 132041848004	Sample number(s): 7134365-7134369								
Arsenic	N.D.	0.0068	0.0200	mg/l	96		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	98		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	102		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	98		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	102		90-110		
Batch number: 132045713003	Sample number(s): 7134342-7134364								
Mercury	N.D.	0.00006	0.00020	mg/l	109		80-120		
		0							
Batch number: 132045713004	Sample number(s): 7134365-7134369								
Mercury	N.D.	0.00006	0.00020	mg/l	103		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: 132041848003	Sample number(s): 7134342-7134364 UNSPK: 7134351 BKG: 7134351								
Arsenic	95	100	81-123	5	20	N.D.	N.D.	0 (1)	20
Barium	98	101	78-118	3	20	0.0170	0.0169	1 (1)	20
Cadmium	95	99	83-116	4	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.

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/29/13 at 03:53 PM

Group Number: 1405754

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</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Chromium	97	100	81-120	3	20	N.D.	N.D.	0 (1)	20
Lead	97	103	75-125	5	20	N.D.	N.D.	0 (1)	20
Nickel	98	102	86-115	3	20	N.D.	N.D.	0 (1)	20
Selenium	94	98	75-125	4	20	N.D.	N.D.	0 (1)	20
Silver	95	98	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	99	102	90-111	3	20	N.D.	N.D.	0 (1)	20
Batch number: 132041848004 Sample number(s): 7134365-7134369 UNSPK: P135254 BKG: P135254									
Arsenic	98	95	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	99	98	78-118	1	20	0.0210	0.0207	2 (1)	20
Cadmium	98	96	83-116	2	20	N.D.	N.D.	0 (1)	20
Chromium	100	98	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	100	99	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	101	100	86-115	2	20	N.D.	N.D.	0 (1)	20
Selenium	95	95	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	96	95	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	101	100	90-111	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132045713003 Sample number(s): 7134342-7134364 UNSPK: 7134351 BKG: 7134351									
Mercury	109	104	80-120	5	20	N.D.	N.D.	0 (1)	20
Batch number: 132045713004 Sample number(s): 7134365-7134369 UNSPK: P135254 BKG: P135254									
Mercury	106	106	80-120	0	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 # 1405754

Sample # 7134342-69

10f3

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested								SCR#: _____																																																																																																																																																																																					
Facility #/SID <u>Mayflower Pipeline Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Total # of Containers				Preservation Code								Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																																																																																																																																					
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ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE		Composite <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil				Total # of Containers VOCs 8260 PAHs 8270 PCBs RCR Metals DISS Metals								6 Remarks Lab to filter and preserve diss metals upon receipt																																																																																																																																																																																					
Consultant/Office <u>ARCADIS</u>		Consultant Phone # <u>919 202 6779</u>																																																																																																																																																																																																			
Consultant PM <u>Steve Barnick</u>		Consultant Phone # <u>919 202 6779</u>		Grab <input type="checkbox"/> Composite				Total # of Containers VOCs 8260 PAHs 8270 PCBs RCR Metals DISS Metals								Total # of Containers VOCs 8260 PAHs 8270 PCBs RCR Metals DISS Metals																																																																																																																																																																																					
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2 Sample Identification				3 Collected				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Oil</th> <th>Total # of Containers</th> <th>VOCs 8260</th> <th>PAHs 8270</th> <th>PCBs</th> <th>RCR Metals</th> <th>DISS Metals</th> </tr> </thead> <tbody> <tr><td>WS-014 (1.5-2.0)</td><td>072013</td><td>7/20/13</td><td>820</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-012 (1.5-2.0)</td><td>072013</td><td>7/20/13</td><td>835</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-010 (1.5-2.0)</td><td>072013</td><td>7/20/13</td><td>900</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-005 (surface)</td><td>072013</td><td>7/20/13</td><td>925</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-011 (1.5-2.0)</td><td>072013</td><td>7/20/13</td><td>1005</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-003 (surface)</td><td>072012</td><td>7/20/13</td><td>1025</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-018 (surface)</td><td>072013</td><td>7/20/13</td><td>1035</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-002 (surface)</td><td>072013</td><td>7/20/13</td><td>1055</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-007 (0.5-1.0)</td><td>072013</td><td>7/20/13</td><td>1125</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-006 (0.5-1.0)</td><td>072013</td><td>7/20/13</td><td>1135</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-006 (0.5-1.0)</td><td>072013 MSD</td><td>7/20/13</td><td>1135</td><td>X</td><td></td><td>X</td><td></td><td>14</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>WS-001 (0.5-1.0)</td><td>072013</td><td>7/20/13</td><td>1155</td><td>X</td><td></td><td>X</td><td></td><td>7</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> </tbody> </table>								Sample ID	Date	Time	Grab	Composite	Soil	Water	Oil	Total # of Containers	VOCs 8260	PAHs 8270	PCBs	RCR Metals	DISS Metals	WS-014 (1.5-2.0)	072013	7/20/13	820	X		X		7	X	X	X	X		WS-012 (1.5-2.0)	072013	7/20/13	835	X		X		7	X	X	X	X		WS-010 (1.5-2.0)	072013	7/20/13	900	X		X		7	X	X	X	X		WS-005 (surface)	072013	7/20/13	925	X		X		7	X	X	X	X		WS-011 (1.5-2.0)	072013	7/20/13	1005	X		X		7	X	X	X	X		WS-003 (surface)	072012	7/20/13	1025	X		X		7	X	X	X	X		WS-018 (surface)	072013	7/20/13	1035	X		X		7	X	X	X	X		WS-002 (surface)	072013	7/20/13	1055	X		X		7	X	X	X	X		WS-007 (0.5-1.0)	072013	7/20/13	1125	X		X		7	X	X	X	X		WS-006 (0.5-1.0)	072013	7/20/13	1135	X		X		7	X	X	X	X		WS-006 (0.5-1.0)	072013 MSD	7/20/13	1135	X		X		14	X	X	X	X		WS-001 (0.5-1.0)	072013	7/20/13	1155	X		X		7	X	X	X	X	
Sample ID	Date	Time	Grab	Composite	Soil	Water	Oil									Total # of Containers	VOCs 8260	PAHs 8270	PCBs	RCR Metals	DISS Metals																																																																																																																																																																																
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7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H. Van Allee</u>				Date <u>7/21/13</u>		Time <u>1400</u>		Received by		Date		Time 9																																																																																																																																																																																					
Standard <u>5 day</u> 4 day				Relinquished by				Date		Time		Received by		Date		Time																																																																																																																																																																																					
72 hour 48 hour 24 hour				Relinquished by				Date		Time		Received by		Date		Time																																																																																																																																																																																					
8 Data Package (circle if required)				EDD (circle if required)				Relinquished by Commercial Carrier				Received by		Date		Time																																																																																																																																																																																					
Type I - Full				Locus EIM (default)				UPS FedEx _____ Other <u>Santitas</u>				<u>[Signature]</u>		<u>7/27/13</u>		<u>1540</u>																																																																																																																																																																																					
Type VI (Raw Data)				Other _____				Temperature Upon Receipt <u>0.5-1.6 °C</u>				Custody Seals Intact?		<u>Yes</u>		No																																																																																																																																																																																					
NJ Reduced																																																																																																																																																																																																					
Other _____																																																																																																																																																																																																					

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1405754 Sample # 7134342-69
Instructions on reverse side correspond with circled numbers.

2 of 3

1 Client Information				4 Matrix			5 Analyses Requested										6 Remarks	
Facility #/SID <u>Mayflower Pipeline Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air	<input type="checkbox"/> Water <input type="checkbox"/> NPDES	<input type="checkbox"/> Soil <input type="checkbox"/> Ground <input type="checkbox"/> Air	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>							Total # of Containers VOCs 8260 PAHs 8270 RCRA Metals ^{Hardness, V, Ni, Cd, Pb} Diss. Metals*										* Lab to filter and preserve diss metals upon receipt	
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																
Consultant/Office <u>AR CADIS</u>																		
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 202 6779</u>																
Sampler <u>L. de marthy / H. van Aller</u>																		
2 Sample Identification			3 Composite															
		Collected		Grab													Composite	
Date	Time																	
WS-EB-6-072013	7-20-13	1445	X														X	
WS-TB-102-072013	7-20-13	—	X		X			2	X	X	X	X						
WS-014 (1.5-2.0) 072113	7-21-13	835	X		X			7	X	X	X	X						
WS-012 (1.5-2.0) 072113	7-21-13	855	X		X			7	X	X	X	X						
WS-010 (1.5-2.0) 072113	7-21-13	915	X		X			7	X	X	X	X						
WS-005 (Surface) 072113	7-21-13	935	X		X			7	X	X	X	X						
WS-011 (1.5-2.0) 072113	7-21-13	1005	X		X			7	X	X	X	X						
WS-018 (Surface) 072113	7-21-13	1025	X		X			7	X	X	X	X						
WS-003 (Surface) 072113	7-21-13	1035	X		X			7	X	X	X	X						
WS-002 (Surface) 072113	7-21-13	1055	X		X			7	X	X	X	X						
WS-007 (0.5-1.0) 072113	7-21-13	1110	X		X			7	X	X	X	X						
WS-006 (0.5-1.0) 072113	7-21-13	1120	X		X			7	X	X	X	X						

7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>		Date <u>7/21/13</u>	Time <u>1400</u>	Received by _____	Date _____	Time _____
Standard <u>5 day</u> 4 day				Relinquished by _____		Date _____	Time _____	Received by _____	Date _____	Time _____
72 hour 48 hour 24 hour				Relinquished by _____		Date _____	Time _____	Received by _____	Date _____	Time _____
8 Data Package (circle if required)				Relinquished by Commercial Carrier		UPS _____ FedEx _____ Other <u>Southern</u>		Received by <u>[Signature]</u>	Date <u>7/22/13</u>	Time <u>1510</u>
								Type I - Full EDD (circle if required) Type VI (Raw Data) Locus EIM (default) NJ Reduced Other _____ Other _____		

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 14739

For Eurofins Lancaster Laboratories use only
Group # 1405754 Sample # 7134342-69

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>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air	Total # of Containers	Preservation Code H								SCR#: _____																																																																																		
Site Address <u>Mayflower, AR</u>						Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																																										
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE				* Lab to filter and preserve all metals upon receipt																																																																																										
Consultant/Office <u>ARCADIS</u>						<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="width: 20px; text-align: center;">H</td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td> </tr> <tr> <td style="text-align: center;">X</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> <tr> <td style="text-align: center;">X</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> <tr> <td style="text-align: center;">X</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																				X																					X																					X																				
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Consultant PM <u>Steve Barnick</u>		Consultant Phone # <u>9192026779</u>																																																																																														
Sampler <u>L. de Marffy / H. van Aller</u>																																																																																																
2 Sample Identification			3 Collected		Grab	Composite	5 Analyses Requested																																																																																									
Date	Time						Soil	Water	Oil	VOCs	PAHs	PCRA Metals	Trace Metals	Diss. Metals	H	N	S	T	B	O																																																																												
<u>WS-001(0.5-1.0)072113</u>	<u>7/21/13</u>	<u>1140</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				7	X	X	X	X																																																																																				
<u>DWP-WS-59-072113</u>	<u>7/21/13</u>	<u>-</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				7	X	X	X	X																																																																																				
<u>WS-FB-102-072113</u>	<u>7/21/13</u>	<u>1215</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				7	X	X	X	X																																																																																				
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>[Signature]</u>			Date <u>7/21/13</u>		Time <u>1400</u>		Received by <u>[Signature]</u>		Date <u>7/22/13</u>		Time <u>1540</u>		9																																																																																
Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour			Relinquished by _____			Date _____		Time _____		Received by _____		Date _____		Time _____																																																																																		
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8 Data Package (circle if required)			EDD (circle if required)			Relinquished by Commercial Carrier UPS _____ FedEx _____ Other <u>Southwest</u>						Received by <u>[Signature]</u>		Date <u>7/22/13</u>		Time <u>1540</u>																																																																																
Type I - Full Type VI (Raw Data) NJ Reduced Other _____			Locus EIM (default) Other _____			Temperature Upon Receipt <u>5-1.8 °C</u>						Custody Seals Intact? <u>Yes</u> No																																																																																				

Kathy Klinefelter

14739, 1405754, 7134342-69

From: Van Aller, Hans [Hans.VanAller@arcadis-us.com]
Sent: Sunday, July 21, 2013 5:36 PM
To: Van Aller, Hans; Kathy Klinefelter; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie; Steve C. Davies
Subject: RE: Mayflower COCs Surface water sampling 072113
WS-EB-102-072113- Should be changed to WS-EB-7-072113

From: Van Aller, Hans
Sent: Sunday, July 21, 2013 4:24 PM
To: Van Aller, Hans; KKlinefelter@lancasterlabs.com; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie; Steve C. Davies
Subject: Mayflower COCs Surface water sampling 072113

Hello All

Attached are the COCs from today's surface water sampling activities. We shipped 5 coolers, 4 surface water and 1 soil. It is on flight 1281 and ETA is 7:25 pm. I attached the air bill.

Thanks,

Hans H. van Aller IV | Field Tech 3 | Hans.VanAller@arcadis-us.com
ARCADIS U.S., Inc. | 630 Plaza Drive, Suite 100 | Highlands Ranch, CO 80129
T. 720.344.3500 | M.720.635.0173 | F. 720.344.3535

www.arcadis-us.com

ARCADIS, Imagine the result

Please consider the environment before printing this email.

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7/22/2013

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil
 Date of Receipt: 7/22/13
 Time of Receipt: 1540
 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	1.9°	TB	WI	Y	B	
2	↓	0.5°	↓	↓	↓	↓	
3	↓	1.8°	↓	↓	↓	↓	
4	↓	1.3°	↓	↓	↓	↓	
5	↓	0.5°	↓	↓	↓	↓	
6							

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

Paperwork Discrepancy/Unpacking Problems:

WS-EB-102 labeled WS-EB-7

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 7/22/13 1650

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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