

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: 07/24/2013

Group Number: 1406226

SDG: PEJ35

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-014(1.5-2.0)072313 Filt Grab Surface Water	7137400
WS-014(5.5-6.0)072313 Filt Grab Surface Water	7137401
WS-012(1.5-2.0)072313 Filt Grab Surface Water	7137402
WS-012(5.0-5.5)072313 Filt Grab Surface Water	7137403
WS-010(1.5-2.0)072313 Filt Grab Surface Water	7137404
WS-010(3.5-4.0)072313 Filt Grab Surface Water	7137405
WS-011(1.5-2.0)072313 Filt Grab Surface Water	7137406
WS-011(5.0-5.5)072313 Filt Grab Surface Water	7137407
WS-005(Surface)072313 Filt Grab Surface Water	7137408
WS-003(Surface)072313 Filt Grab Surface Water	7137409
WS-018(Surface)072313 Filt Grab Surface Water	7137410
WS-002(Surface)072313 Filt Grab Surface Water	7137411
WS-007(0.5-1.0)072313 Filt Grab Surface Water	7137412
WS-006(0.5-1.0)072313 Filt Grab Surface Water	7137413
WS-001(0.5-1.0)072313 Filt Grab Surface Water	7137414
DUP-WS-60-072313 Filt Grab Surface Water	7137415
WS-EB-9-072313 Filt Grab Water	7137416

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC ARCADIS
COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS
COPY TO

Attn: Lyndi Mott

ELECTRONIC ExxonMobil
COPY TO

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 #: 1406226

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137400
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 08:45 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F141 SDG#: PEJ35-01

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	0.0156	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 16:51	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137401
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 08:50 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F142 SDG#: PEJ35-02

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	0.0174	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	132051848004	07/25/2013 20:08	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 16:59	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137402
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 09:15 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F121 SDG#: PEJ35-03

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	0.0185	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	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	132051848004	07/25/2013 20:19	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:01	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137403
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 09:20 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F122 SDG#: PEJ35-04

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	0.0190	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	132051848004	07/25/2013 20:23	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:23	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:03	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137404
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 09:55 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F101 SDG#: PEJ35-05

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	0.0227	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	132051848004	07/25/2013 20:27	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:27	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:09	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137405
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 10:00 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F102 SDG#: PEJ35-06

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	0.0228	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	132051848004	07/25/2013 20:30	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:30	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:11	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137406
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 11:00 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F111 SDG#: PEJ35-07

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	0.0171	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	132051848004	07/25/2013 19:41	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 19:41	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:13	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137407
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 11:10 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F112 SDG#: PEJ35-08

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	0.0189	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	132051848004	07/25/2013 20:34	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:34	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:15	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137408
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 10:30 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F005 SDG#: PEJ35-09

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	0.0113	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:38	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:17	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137409
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 12:55 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F003 SDG#: PEJ35-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0184	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:19	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137410
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 13:05 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F018 SDG#: PEJ35-11

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	0.0210	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000088 J	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:21	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137411
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 13:20 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F002 SDG#: PEJ35-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0173	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	132051848004	07/25/2013 20:50	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:23	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137412
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 13:40 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F007 SDG#: PEJ35-13

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	0.0190	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	0.0016 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 20:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:26	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137413
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 13:55 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F006 SDG#: PEJ35-14

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	0.0245	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	132051848004	07/25/2013 21:05	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 21:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:28	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137414
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 14:15 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/24/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:14

Houston TX 77210-4416

-F001 SDG#: PEJ35-15

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 21:09	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:34	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: DUP-WS-60-072313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137415
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 by LD

ExxonMobil

Submitted: 07/24/2013 09:20

Mobil Pipeline Company

Reported: 07/29/2013 15:14

PO Box 4416

Houston TX 77210-4416

-FD60 SDG#: PEJ35-16FD

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	0.0222	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	132051848004	07/25/2013 21:12	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 21:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:36	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	Nelli S Markaryan	1

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

Sample Description: WS-EB-9-072313 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7137416
LL Group # 1406226
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/23/2013 15:15 by LD

ExxonMobil

Submitted: 07/24/2013 09:20

Mobil Pipeline Company

Reported: 07/29/2013 15:14

PO Box 4416

Houston TX 77210-4416

-FEB9 SDG#: PEJ35-17EB*

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07046	Barium	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07055	Lead	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07066	Silver	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132051848004	07/25/2013 21:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	132055713005	07/26/2013 17:38	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132051848004	07/25/2013 06:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132055713005	07/25/2013 13:15	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 03:14 PM

Group Number: 1406226

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: 132051848004	Sample number(s): 7137400-7137416								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	103		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	102		90-110		
Batch number: 132055713005	Sample number(s): 7137400-7137416								
Mercury	N.D.	0.00006	0.00020	mg/l	101		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: 132051848004	Sample number(s): 7137400-7137416 UNSPK: 7137406 BKG: 7137406								
Arsenic	99	100	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	1	20	0.0171	0.0166	3 (1)	20
Cadmium	100	100	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	102	103	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	103	104	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	103	103	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	96	99	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	98	97	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	104	103	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132055713005	Sample number(s): 7137400-7137416 UNSPK: 7137400 BKG: 7137400								
Mercury	106	105	80-120	1	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

Acct. # 14739 Group # 1406226 Sample # 7137400-16
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks																																																																																																																															
Facility #/SID <u>Mayflower Pipeline Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																																																																															
Site Address <u>Mayflower, AR</u>						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>#</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th> </tr> <tr> <td><u>VOCs 8240B</u></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><u>DATA 8270 SIM</u></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><u>ROPA Metals 7137400-16</u></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><u>Diss Metals #</u></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><u>Oil & Grease HEM</u></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>												#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	<u>VOCs 8240B</u>																					<u>DATA 8270 SIM</u>																					<u>ROPA Metals 7137400-16</u>																					<u>Diss Metals #</u>																					<u>Oil & Grease HEM</u>																				
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Consultant/Office <u>ARCADIS</u>																																																																																																																																															
Consultant PM <u>Steve Barnick</u>																																																																																																																																															
Consultant Phone # <u>919 202 16779</u>																Remarks * lab to filter and preserve diss metals upon receipt																																																																																																																															
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2 Sample Identification				3 Grab Composite																																																																																																																																											
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		Date	Time																																																																																																																																												
<u>WS-014 (1.5-2.0) 072313</u>		<u>7/23/13</u>	<u>845</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-014 (5.5-6.0) 072313</u>		<u>7/23/13</u>	<u>850</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-012 (1.5-2.0) 072313</u>		<u>7/23/13</u>	<u>915</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-012 (5.0-5.5) 072313</u>		<u>7/23/13</u>	<u>920</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-010 (1.5-2.0) 072313</u>		<u>7/23/13</u>	<u>955</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-010 (3.5-4.0) 072313</u>		<u>7/23/13</u>	<u>1000</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-011 (1.5-2.0) 072313</u>		<u>7/23/13</u>	<u>1100</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-011 (5.0-5.5) 072313</u>		<u>7/23/13</u>	<u>1110</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-005 (Surface) 072313</u>		<u>7/23/13</u>	<u>1030</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-003 (Surface) 072313</u>		<u>7/23/13</u>	<u>1255</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-018 (Surface) 072313</u>		<u>7/23/13</u>	<u>1305</u>	<input checked="" type="checkbox"/>																																																																																																																																											
<u>WS-002 (Surface) 072313</u>		<u>7/23/13</u>	<u>1320</u>	<input checked="" type="checkbox"/>																																																																																																																																											
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date		Time		Received by		Date		Time																																																																																																																																	
Standard <u>5 day</u> 4 day				<u>H. Van Allen</u>		<u>7/23/13</u>		<u>1700</u>		<u>Burandy Nauchy</u>		<u>7-24-13</u>		<u>920</u>																																																																																																																																	
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8 Data Package (circle if required)				Relinquished by Commercial Carrier		UPS		FedEx		Other		Received by		Date		Time																																																																																																																															
Type I - Full				<u>UPS</u>		<u>FedEx</u>		<u>X</u>		<u>Other</u>		<u>Burandy Nauchy</u>		<u>7-24-13</u>		<u>920</u>																																																																																																																															
Type VI (Raw Data)				<u>Temperature Upon Receipt</u>		<u>0.7-36°C</u>		<u>Custody Seals Intact?</u>		<u>Yes</u>		<u>No</u>		<u>Yes</u>		<u>No</u>																																																																																																																															
NJ Reduced				<u>Other</u>		<u>Other</u>		<u>Other</u>		<u>Other</u>		<u>Other</u>		<u>Other</u>		<u>Other</u>																																																																																																																															
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The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

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Acct. # 14739 Group # 1406226 Sample # 7137400-16
Instructions on reverse side correspond with circled numbers.

For Lancaster Laboratories use only
 up # 1406226 Sample # 713
 Instructions on reverse side correspond with circled numbers

- 2 of 2

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7053.01

Environmental Sample Administration
Receipt Documentation Log

1406226

Client/Project:

Exxon mobil

Shipping Container Sealed:

YES

NO

Date of Receipt:

7-24-13

Custody Seal Present *:

YES

NO

Time of Receipt:

920

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

Source Code:

50-1

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	DH46	1.5	TB	WI	Y	B	
2	↓	1.3	↓	↓	↓	↓	
3	↓	2.8	↓	↓	↓	↓	
4	↓	3.6	↓	↓	↓	↓	
5	↓	0.9	↓	↓	↓	↓	
6	↓	1.3	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Rec 8 Total For WS-E13-9-072313
(Rec 1 O2G)

Unpacker Signature/Emp#:

Branely Branely 2299

Date/Time:

7-24-13 956

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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