

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

September 28, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/21/2013
Group Number: 1420552
SDG: PEL61
PO Number: B0086003.1301
State of Sample Origin: AR

Client Sample Description

| <u>Client Sample Description</u> | <u>Lancaster Labs (LL) #</u> |
|---|------------------------------|
| WS-014(1.5-2.0)092013 Filt Grab Surface Water | 7206661 |
| WS-014(5.5-6.0)092013 Filt Grab Surface Water | 7206662 |
| WS-012(1.5-2.0)092013 Filt Grab Surface Water | 7206663 |
| WS-012(5.0-5.5)092013 Filt Grab Surface Water | 7206664 |
| WS-010(1.5-2.0)092013 Filt Grab Surface Water | 7206665 |
| WS-010(3.5-4.0)092013 Filt Grab Surface Water | 7206666 |
| WS-006(0.5-1.0)092013 Filt Grab Surface Water | 7206667 |
| WS-005(Surface)092013 Filt Grab Surface Water | 7206668 |
| WS-002(Surface)092013 Filt Grab Surface Water | 7206669 |
| WS-011(1.5-2.0)092013 Filt Grab Surface Water | 7206670 |
| WS-011(5.0-5.5)092013 Filt Grab Surface Water | 7206671 |
| WS-018(Surface)092013 Filt Grab Surface Water | 7206672 |
| WS-003(Surface)092013 Filt Grab Surface Water | 7206673 |
| WS-007(0.5-1.0)092013 Filt Grab Surface Water | 7206674 |
| WS-001(0.5-1.0)092013 Filt Grab Surface Water | 7206675 |
| WS-EB-67-092013 Filt Grab Water | 7206676 |
| DUP-WS-90-092013 Filt Grab Surface Water | 7206677 |

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 |

| | | |
|------------|------------|--------------------------|
| COPY TO | | |
| ELECTRONIC | ARCADIS | Attn: Rhiannon Parmalee |
| COPY TO | | |
| ELECTRONIC | ARCADIS | Attn: Jamie Pritchard |
| COPY TO | | |
| ELECTRONIC | ExxonMobil | Attn: Michael L Sixsmith |
| COPY TO | | |
| ELECTRONIC | ExxonMobil | Attn: Julie Foster |
| COPY TO | | |

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1420552

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:**SW-846 6010B, Metals Dissolved**

Batch #: 132671848002 (Sample number(s): 7206661-7206677 UNSPK: 7206665 BKG: 7206665)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Lead

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

Sample Description: WS-014(1.5-2.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206661
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 11:30 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

14152 SDG#: PEL61-01

| 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 | 0.0231 | 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 | 132671848002 | 09/26/2013 14:14 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:26 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:14 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:14 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:26 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:14 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:14 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:14 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:14 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 04:47 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

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

Sample Description: WS-014(5.5-6.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206662
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 11:40 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

14556 SDG#: PEL61-02

| 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 | 0.0220 | 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 | 132671848002 | 09/26/2013 14:17 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:38 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:17 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:17 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:38 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:17 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:17 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:17 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:17 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 04:55 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

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

Sample Description: WS-012(1.5-2.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206663
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 11:50 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

12152 SDG#: PEL61-03

| 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 | 0.0168 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 0.0016 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 0.0047 | 0.0150 | 1 |
| 07061 | Nickel | 7440-02-0 | N.D. | 0.0015 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | N.D. | 0.0084 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | N.D. | 0.0021 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | N.D. | 0.0020 | 0.0050 | 1 |
| | | SW-846 7470A | mg/l | mg/l | mg/l | |
| 00259 | Mercury | 7439-97-6 | N.D. | 0.000060 | 0.00020 | 1 |

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035 | Arsenic | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:29 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:42 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:29 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:29 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:42 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:29 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:29 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:29 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:29 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:02 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-012(5.0-5.5)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206664
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 12:00 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

12505 SDG#: PEL61-04

| 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 | 0.0186 | 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 | 132671848002 | 09/26/2013 14:33 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:46 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:33 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:33 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:46 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:33 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:33 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:33 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:33 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:04 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-010(1.5-2.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206665
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

10152 SDG#: PEL61-05

| 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 | 0.0203 | 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 | 132671848002 | 09/26/2013 13:51 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:02 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 13:51 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 13:51 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:02 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 13:51 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 13:51 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 13:51 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 13:51 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:06 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-010(3.5-4.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206666
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 12:30 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

10354 SDG#: PEL61-06

| 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 | 0.0216 | 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 | 132671848002 | 09/26/2013 14:36 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:50 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:36 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:36 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:50 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:36 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:36 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:36 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:36 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:08 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

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

Sample Description: WS-006(0.5-1.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206667
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 12:50 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

6-051 SDG#: PEL61-07

| 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 | 0.0214 | 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 | 132671848002 | 09/26/2013 15:30 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:54 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:30 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:30 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:54 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:30 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:30 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:30 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:30 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:10 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-005 (Surface) 092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206668
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 10:30 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

5-SRF SDG#: PEL61-08

| 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 | 0.0420 | 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 | 132671848002 | 09/26/2013 14:44 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:58 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:44 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:44 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 12:58 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:44 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:44 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:44 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:44 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:12 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-002 (Surface) 092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206669
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 13:45 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

2-SRF SDG#: PEL61-09

| 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 | 0.0226 | 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 | 132671848002 | 09/26/2013 14:48 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:02 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:48 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:48 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:02 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:48 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:48 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:48 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:48 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:14 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-011(1.5-2.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206670
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 13:50 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

11152 SDG#: PEL61-10

| 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 | 0.0188 | 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 | 132671848002 | 09/26/2013 14:52 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:06 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:52 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:52 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:06 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:52 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:52 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:52 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:52 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:16 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-011(5.0-5.5)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206671
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 14:00 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

11505 SDG#: PEL61-11

| 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 | 0.0191 | 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 | 132671848002 | 09/26/2013 14:55 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:10 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:55 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:55 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:10 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:55 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:55 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:55 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:55 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:18 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

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

Sample Description: WS-018 (Surface) 092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206672
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 14:20 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

18S-F SDG#: PEL61-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals Dissolved | | | mg/l | mg/l | mg/l | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0612 | 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 | 132671848002 | 09/26/2013 14:59 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:14 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:59 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:59 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:14 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:59 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:59 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:59 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 14:59 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:20 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-003 (Surface) 092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206673
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 14:30 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

-3-SF SDG#: PEL61-13

| 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 | 0.0226 | 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 | 132671848002 | 09/26/2013 15:03 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:26 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:03 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:03 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:26 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:03 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:03 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:03 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:03 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:26 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: WS-007(0.5-1.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206674
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 14:50 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

-7-51 SDG#: PEL61-14

| 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 | 0.0220 | 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 | 132671848002 | 09/26/2013 15:14 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:30 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:14 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:14 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:30 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:14 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:14 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:14 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:14 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:28 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

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

Sample Description: WS-001(0.5-1.0)092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206675
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 15:00 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

-1-51 SDG#: PEL61-15

| 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 | 0.0203 | 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 | 132671848002 | 09/26/2013 15:18 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:34 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:18 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:18 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:34 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:18 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:18 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:18 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:18 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:30 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: **WS-EB-67-092013 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7206676**
 LL Group # **1420552**
 Account # **14739**

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

Collected: 09/20/2013 15:30 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

EB-90 SDG#: PEL61-16EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals Dissolved | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0191 | 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 | 132671848002 | 09/26/2013 15:22 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:38 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:22 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:22 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:38 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:22 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:22 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:22 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:22 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:32 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Sample Description: DUP-WS-90-092013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7206677
LL Group # 1420552
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/20/2013 by DD

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

Submitted: 09/21/2013 08:50

Reported: 09/28/2013 05:43

FD156 SDG#: PEL61-17FD*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals Dissolved | | | | | | |
| | | SW-846 6010B | mg/l | mg/l | mg/l | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0217 | 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 | 132671848002 | 09/26/2013 15:26 | Eric L Eby | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:42 | Katlin N Cataldi | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:26 | Eric L Eby | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:26 | Eric L Eby | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132671848002 | 09/27/2013 13:42 | Katlin N Cataldi | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:26 | Eric L Eby | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:26 | Eric L Eby | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:26 | Eric L Eby | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132671848002 | 09/26/2013 15:26 | Eric L Eby | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132675713002 | 09/26/2013 05:34 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132671848002 | 09/24/2013 22:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132675713002 | 09/25/2013 05:30 | Damary Valentin | 1 |

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 09/28/13 at 05:43 AM

Group Number: 1420552

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: 132671848002 | Sample number(s): 7206661-7206677 | | | | | | | | |
| Arsenic | N.D. | 0.0068 | 0.0200 | mg/l | 107 | | 90-113 | | |
| Barium | N.D. | 0.00033 | 0.0050 | mg/l | 106 | | 90-110 | | |
| Cadmium | N.D. | 0.00076 | 0.0050 | mg/l | 102 | | 90-112 | | |
| Chromium | N.D. | 0.0016 | 0.0150 | mg/l | 102 | | 90-110 | | |
| Lead | N.D. | 0.0047 | 0.0150 | mg/l | 113* | | 88-110 | | |
| Nickel | N.D. | 0.0015 | 0.0100 | mg/l | 109 | | 90-111 | | |
| Selenium | N.D. | 0.0084 | 0.0200 | mg/l | 106 | | 80-120 | | |
| Silver | N.D. | 0.0021 | 0.0050 | mg/l | 99 | | 80-120 | | |
| Vanadium | N.D. | 0.0020 | 0.0050 | mg/l | 105 | | 90-110 | | |
| Batch number: 132675713002 | Sample number(s): 7206661-7206677 | | | | | | | | |
| 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: 132671848002 | Sample number(s): 7206661-7206677 UNSPK: 7206665 BKG: 7206665 | | | | | | | | |
| Arsenic | 107 | 106 | 81-123 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Barium | 105 | 105 | 78-118 | 1 | 20 | 0.0203 | 0.0198 | 3 (1) | 20 |
| Cadmium | 101 | 99 | 83-116 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Chromium | 102 | 101 | 81-120 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Lead | 112 | 113 | 75-125 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Nickel | 107 | 107 | 86-115 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Selenium | 107 | 104 | 75-125 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Silver | 99 | 99 | 75-125 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Vanadium | 105 | 105 | 90-111 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 132675713002 | Sample number(s): 7206661-7206677 UNSPK: 7206661 BKG: 7206661 | | | | | | | | |
| Mercury | 101 | 101 | 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
Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only
Group # 1420552 Sample # 7206661-77
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> | | | | Soil <input type="checkbox"/> | Water <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 | | | | | |
| Site Address <u>MAYFLOWER, AR</u> | | | | | | | | Sediment <input type="checkbox"/> | Potable <input type="checkbox"/> | NPDES <input type="checkbox"/> | Ground <input type="checkbox"/> | Surface <input checked="" type="checkbox"/> | N | H | N | | | | | | | | |
| ExxonMobil PM <u>SCOTT Bushroc</u> | | Cost Center/AFE | | | | | | | | | | | | | | | | | | | | | |
| Consultant/Office <u>ARCADIS</u> | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant PM <u>STEVE BARRIC</u> | | Consultant Phone # <u>919-302-6799</u> | | | | | | | | | | | | | | | | | | | | | |
| Samples <u>DAVIS DROST / RYAN LEWIS</u> | | | | 3 | | | | | | | | | | | | | | | | | | | |
| 2 Sample Identification | | Collected | | Grab | Composite | | | | | | | | | | | | | | | | | | |
| Date | Time | | | | | | | | | | | | | | | | | | | | | | |
| <u>WS-014 (1.5-2.0) 092013</u> | <u>9.20.13</u> | <u>1130</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-014 (5.5-6.0) 092013</u> | | <u>1140</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-012 (1.5-2.0) 092013</u> | | <u>1150</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-012 (5.0-5.5) 092013</u> | | <u>1200</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-010 (1.5-2.0) 092013</u> | | <u>1220</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-010 (3.5-4.0) 092013</u> | | <u>1230</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-006 (0.5-1.0) 092013</u> | | <u>1250</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-005 (Surface) 092013</u> | | <u>1030</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-002 (Surface) 092013</u> | | <u>1345</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-011 (1.5-2.0) 092013</u> | | <u>1350</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-011 (5.0-5.5) 092013</u> | | <u>1400</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| <u>WS-018 (Surface) 092013</u> | <u>↓</u> | <u>1420</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| 7 Turnaround Time Requested (TAT) (please circle) | | | | Relinquished by <u>D. Drost</u> | | | | Date | Time | Received by | | Date | Time | 9 | | | | | | | | | |
| Standard | | <u>5 day</u> | 4 day | | | | <u>9.20.13</u> | <u>1700</u> | | | | | | | | | | | | | | | |
| 72 hour | | 48 hour | | 24 hour | | | | | | | | | | | | | | | | | | | |
| 8 Data Package (circle if required) | | | | EDD (circle if required) | | | | Relinquished by Commercial Carrier | | | | Received by | | Date | Time | | | | | | | | |
| | | | | | | | | Type I - Full Type VI (Raw Data) NJ Reduced Other _____ | | | | Locus EIM (default) Other _____ | | | | UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ | | Received by <u>[Signature]</u> Date <u>9/21/13</u> Time <u>850</u> | | | | | |
| | | | | | | | | Temperature Upon Receipt <u>04-2.9°C</u> | | | | Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only
Group # 1420552 Sample # 7206601-77
Instructions on reverse side correspond with circled numbers.

2 of 2

| 1 Client Information | | | | 4 Matrix | | | | 5 Analyses Requested | | | | | | | | | | 6 Remarks | | | | | | |
|--|--|---|----------------|------------------------------------|-------------------------------------|---|-------------------------------------|---|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|--|--|-----------|--|---|--|--|--|--|
| Preservation Code | | | | Soil | | Water | | Oil | | Total # of Containers | | | | | | | | | | SCR#: _____ | | | | |
| Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u> | | | | <input type="checkbox"/> Sediment | | <input type="checkbox"/> Potable | | <input type="checkbox"/> Air | | | | | | | | | | | | Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other | | | | |
| Site Address <u>MAYFLOWER AR</u> | | | | <input type="checkbox"/> Ground | | <input checked="" type="checkbox"/> Surface | | | | | | | | | | | | | | | | | | |
| ExxonMobil PM <u>SCOTT BUSHROE</u> | | Cost Center/AFE | | <input type="checkbox"/> NPDES | | | | | | | | | | | | | | | | 7 | | | | |
| Consultant/Office <u>ARCADIS</u> | | | | <input type="checkbox"/> NPDES | | | | | | | | | | | | | | | | | | | | |
| Consultant PM <u>STEVE BARUCK</u> | | Consultant Phone # <u>919-302-6799</u> | | <input type="checkbox"/> Air | | | | | | | | | | | | | | | | 9 | | | | |
| Sampler <u>DAVID LORRY / RYAN LEWIS</u> | | | | <input type="checkbox"/> NPDES | | | | | | | | | | | | | | | | | | | | |
| 2 Sample Identification | | 3 Collected | | Grab | | Composite | | Soil | | Water | | Oil | | Total # of Containers | | | | | | | | | | |
| | | Date | Time | Grab | Composite | Soil | Water | Oil | Total # of Containers | VOCs | PAH | RCRA Metals + Ni, V, Cr, Mg | Drss. Metals | HEM Oil & Grease | | | | | | | | | | |
| <u>WS-003 (Surface)</u> | | <u>092013</u> | <u>9.20.13</u> | <u>1430</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <u>9</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| <u>WS-007 (0.5-1.0)</u> | | <u>092013</u> | | <u>1450</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <u>9</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| <u>WS-001 (0.5-1.0)</u> | | <u>092013</u> | | <u>1500</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <u>9</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| <u>WS-EB-67-092013</u> | | | | <u>1530</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <u>7</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | |
| <u>DUP-WS-90-092013</u> | | | | <u>---</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <u>9</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| <u>WS-TB-156-092013</u> | | | | <u>---</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <u>2</u> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| 7 Turnaround Time Requested (TAT) (please circle) | | | | Relinquished by <u>D. Lorry</u> | | Date <u>9.20.13</u> | | Time <u>1700</u> | | Received by | | Date | | Time | | | | | | | | | | |
| Standard <u>5 day</u> 4 day | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 hour 48 hour 24 hour | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 Data Package (circle if required) | | | | Relinquished by Commercial Carrier | | UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ | | Temperature Upon Receipt <u>0.4 = 2.9°C</u> | | Received by <u>[Signature]</u> | | Date <u>9/21/13</u> | | Time <u>850</u> | | | | | | | | | | |
| Type I - Full | | | | EDD (circle if required) | | Locus EIM (default) | | | | Custody Seals Intact? | | <u>Yes</u> | | No | | | | | | | | | | |
| Type VI (Raw Data) | | | | Other _____ | | | | | | | | | | | | | | | | | | | | |
| NJ Reduced | | | | | | | | | | | | | | | | | | | | | | | | |
| Other _____ | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

Rachel L. Kreamer A# 14739, Gr# 1420552 Sampler 7206661-77

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Monday, September 23, 2013 10:49 AM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter
Subject: RE: Collection time question on sample received Saturday

Rachel,

The correct time is 1250 for sample WS-006(0.5-1.0)

Lyndi Mott

-----Original Message-----

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Monday, September 23, 2013 9:32 AM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Collection time question on sample received Saturday

Good morning Lyndi.

I attached the chains and doc log for the samples we received on Saturday. There is a discrepancy in the collection time between the chain and the label for sample WS-006(0.5-1.0). The chain says 1250, the label says 1240. Please let me know which time should be used.

Thanks
Rachel

-----Original Message-----

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Monday, September 23, 2013 10:24 AM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 09.23.2013 10:24:15 (-0400)
Queries to: 39Scanner@lancasterlabs.com

NOTICE: This e-mail and any files transmitted with it are the property of ARCADIS U.S., Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by ARCADIS U.S., Inc. and its affiliates. Nothing herein is intended to constitute the offering or performance of services where otherwise restricted by law.

G-1420552
Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil
 Date of Receipt: 9/21/13
 Time of Receipt: 850
 Source Code: 60-1

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

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

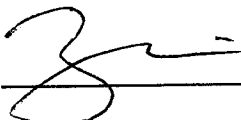
Package: Chilled Not Chilled

| Temperature of Shipping Containers | | | | | | | |
|------------------------------------|----------------|------------------|---------------------------------------|--|------------------|--------------------------------|----------|
| Cooler # | Thermometer ID | Temperature (°C) | Temp Bottle (TB) or Surface Temp (ST) | Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP) | Ice Present? Y/N | Loose (L) Bagged Ice (B) or NA | Comments |
| 1 | DT121 | 0.7 | TB | WI | Y | B | |
| 2 | ↓ | 0.4 | ↓ | ↓ | ↓ | ↓ | |
| 3 | ↓ | 1.3 | ↓ | ↓ | ↓ | ↓ | |
| 4 | ↓ | 0.8 | ↓ | ↓ | ↓ | ↓ | |
| 5 | ↓ | 2.9 | ↓ | ↓ | ↓ | ↓ | |
| 6 | ↓ | 0.6 | ↓ | ↓ | ↓ | ↓ | |

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

Paperwork Discrepancy/Unpacking Problems:

WS-006 (0.5-1.0) time = 1240

Unpacker Signature/Emp#:  2308 Date/Time: 9/21/13 937

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

| | | | |
|-----------------|-----------------------|-----------------|----------------------------------|
| RL | Reporting Limit | BMQL | Below Minimum Quantitation Level |
| N.D. | none detected | MPN | Most Probable Number |
| TNTC | Too Numerous To Count | CP Units | cobalt-chloroplatinate units |
| IU | International Units | NTU | nephelometric turbidity units |
| umhos/cm | micromhos/cm | ng | nanogram(s) |
| C | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| µg | microgram(s) | mg | milligram(s) |
| mL | milliliter(s) | L | liter(s) |
| m3 | cubic meter(s) | µL | microliter(s) |
| | | pg/L | picogram/liter |

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.