

## 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

October 21, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/14/2013

Group Number: 1426120

SDG: PEM13

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL) #

|  |         |
|--|---------|
| WS-014(1.5-2.0)101213 Grab Surface Water | 7235520 |
| WS-014(5.5-6.0)101213 Grab Surface Water | 7235521 |
| WS-012(1.5-2.0)101213 Grab Surface Water | 7235522 |
| WS-012(5.0-5.5)101213 Grab Surface Water | 7235523 |
| WS-010(1.5-2.0)101213 Grab Surface Water | 7235524 |
| WS-010(3.5-4.0)101213 Grab Surface Water | 7235525 |
| WS-006(0.5-1.0)101213 Grab Surface Water | 7235526 |
| WS-005(Surface)101213 Grab Surface Water | 7235527 |
| WS-002(Surface)101213 Grab Surface Water | 7235528 |
| WS-011(1.5-2.0)101213 Grab Surface Water | 7235529 |
| WS-011(5.0-5.5)101213 Grab Surface Water | 7235530 |
| WS-018(Surface)101213 Grab Surface Water | 7235531 |
| WS-003(Surface)101213 Grab Surface Water | 7235532 |
| WS-007(0.5-1.0)101213 Grab Surface Water | 7235533 |
| WS-001(0.5-1.0)101213 Grab Surface Water | 7235534 |
| WS-EB-89-101213 Grab Water               | 7235535 |
| DUP-WS-101-101213 Grab Surface Water     | 7235536 |

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     |

|            |            |                          |
|------------|------------|--------------------------|
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| COPY TO    |            |                          |
| ELECTRONIC | ExxonMobil | Attn: Julie Foster       |
| COPY TO    |            |                          |

Respectfully Submitted,



Katherine A. Klinefelter  
Principal Specialist

(717) 556-7256

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Project Name: Mayflower, AR Pipeline Incident  
LLI Group #: 1426120

**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 8260B 25mL purge, GC/MS Volatiles**

Sample #s: 7235523, 7235525, 7235526, 7235534

A positive result for residual chlorine was detected in the sample container used for analysis.

**SW-846 8270C SIM, GC/MS Semivolatiles**

Batch #: 13288WAB026 (Sample number(s): 7235520-7235536)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7235531

Sample #s: 7235520, 7235521, 7235522, 7235523, 7235524, 7235525, 7235526, 7235527, 7235528, 7235529, 7235530, 7235532, 7235533, 7235534, 7235535, 7235536

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample #s: 7235531

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Sample Description: **WS-014(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723520**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 10:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12141 SDG#: PEM13-01

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-014(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235520**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 10:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12141 SDG#: PEM13-01

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>              |                          |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.031                               | 0.052                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.031                               | 0.052                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.052                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 24.8        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0413      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: WS-014(1.5-2.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235520  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 10:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12141 SDG#: PEM13-01

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.47               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.70               | 0.0167                              | 0.100                             | 1               |
| 07061                | Nickel              | 7440-02-0  | 0.0020 J           | 0.0015                              | 0.0100                            | 1               |
| 07036                | Selenium            | 7782-49-2  | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                | Silver              | 7440-22-4  | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                | Vanadium            | 7440-62-2  | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 11:47       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 11:47       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 13:23       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:50       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:35       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-014(5.5-6.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 723521  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 10:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12145 SDG#: PEM13-02

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-014(5.5-6.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235521**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 10:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12145 SDG#: PEM13-02

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>              |                          |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.011                               | 0.056                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.033                               | 0.056                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.033                               | 0.056                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.011                               | 0.056                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 24.1        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0415      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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



Sample Description: WS-014(5.5-6.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235521  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 10:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12145 SDG#: PEM13-02

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.32               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.63               | 0.0167                              | 0.100                             | 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               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 12:08       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 12:08       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 13:52       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:54       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:37       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: **WS-012(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235522**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 10:40 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12121 SDG#: PEM13-03

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-012(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235522**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 10:40 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12121 SDG#: PEM13-03

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.030                               | 0.050                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.030                               | 0.050                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.050                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 24.0        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0330      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: WS-012(1.5-2.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235522  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 10:40 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12121 SDG#: PEM13-03

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.33               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.59               | 0.0167                              | 0.100                             | 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               |
| <b>SW-846 7470A</b>  |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 12:29       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 12:29       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 14:21       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:06       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:39       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-012(5.0-5.5)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 723523  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 10:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12125 SDG#: PEM13-04

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-012(5.0-5.5)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235523**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 10:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12125 SDG#: PEM13-04

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |

A positive result for residual chlorine was detected in the sample container used for analysis.

| GC/MS | Semivolatiles          | SW-846 8270C SIM | ug/l | ug/l  | ug/l  |   |
|-------|------------------------|------------------|------|-------|-------|---|
| 08357 | Acenaphthene           | 83-32-9          | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Acenaphthylene         | 208-96-8         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Anthracene             | 120-12-7         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Benzo(a)anthracene     | 56-55-3          | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Benzo(a)pyrene         | 50-32-8          | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Benzo(b)fluoranthene   | 205-99-2         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Benzo(g,h,i)perylene   | 191-24-2         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Benzo(k)fluoranthene   | 207-08-9         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Chrysene               | 218-01-9         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Dibenz(a,h)anthracene  | 53-70-3          | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Fluoranthene           | 206-44-0         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Fluorene               | 86-73-7          | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5         | N.D. | 0.011 | 0.056 | 1 |
| 08357 | 1-Methylnaphthalene    | 90-12-0          | N.D. | 0.011 | 0.056 | 1 |
| 08357 | 2-Methylnaphthalene    | 91-57-6          | N.D. | 0.011 | 0.056 | 1 |
| 08357 | Naphthalene            | 91-20-3          | N.D. | 0.033 | 0.056 | 1 |
| 08357 | Phenanthrene           | 85-01-8          | N.D. | 0.033 | 0.056 | 1 |
| 08357 | Pyrene                 | 129-00-0         | N.D. | 0.011 | 0.056 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997          | mg/l        | mg/l        | mg/l        |        |   |
|--------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256  | Total Hardness as CaCO3 | 471-34-1    | 24.1        | 0.033       | 0.20   | 1 |
|        | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035  | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |

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

Sample Description: WS-012(5.0-5.5)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235523  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 10:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12125 SDG#: PEM13-04

| CAT No.              | Analysis Name      | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|--------------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07046                | Barium             | 7440-39-3           | 0.0342             | 0.00033                             | 0.0050                            | 1               |
| 07049                | Cadmium            | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 01750                | Calcium            | 7440-70-2           | 5.36               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium          | 7439-95-4           | 2.60               | 0.0167                              | 0.100                             | 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               |
|                      |                    | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury            | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>EPA 1664A</b>    | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease) | n.a.                | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 12:50       | Jason M Long     | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 12:50       | Jason M Long     | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 14:51       | Chad A Moline    | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier   | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:10       | Tara L Snyder    | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:51       | Damary Valentin  | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz    | 1               |

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

Sample Description: WS-012(5.0-5.5)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235523  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 10:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12125 SDG#: PEM13-04

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name      | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst           | Dilution Factor |
|---------|--------------------|--------------|--------|--------------|------------------------|-------------------|-----------------|
| 05713   | WW SW846 Hg Digest | SW-846 7470A | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease) | EPA 1664A    | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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



Sample Description: **WS-010(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723524**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 11:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12101 SDG#: PEM13-05

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-010(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723524**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 11:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12101 SDG#: PEM13-05

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>              |                          |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.031                               | 0.051                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.031                               | 0.051                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.051                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 25.2        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0356      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: **WS-010(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235524**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 11:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12101 SDG#: PEM13-05

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.61               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.73               | 0.0167                              | 0.100                             | 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               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 13:12       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 13:12       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 15:20       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:14       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:53       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-010(3.5-4.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 723525  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 11:10 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12103 SDG#: PEM13-06

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-010(3.5-4.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235525**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 11:10 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12103 SDG#: PEM13-06

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |

A positive result for residual chlorine was detected in the sample container used for analysis.

| GC/MS | Semivolatiles          | SW-846 8270C SIM | ug/l | ug/l  | ug/l  |   |
|-------|------------------------|------------------|------|-------|-------|---|
| 08357 | Acenaphthene           | 83-32-9          | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene         | 208-96-8         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene             | 120-12-7         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene     | 56-55-3          | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene         | 50-32-8          | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene   | 205-99-2         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene   | 191-24-2         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene   | 207-08-9         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene               | 218-01-9         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene  | 53-70-3          | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene           | 206-44-0         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene               | 86-73-7          | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5         | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene    | 90-12-0          | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene    | 91-57-6          | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene            | 91-20-3          | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene           | 85-01-8          | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene                 | 129-00-0         | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997          | mg/l        | mg/l        | mg/l        |        |   |
|--------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256  | Total Hardness as CaCO3 | 471-34-1    | 25.7        | 0.033       | 0.20   | 1 |
|        | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035  | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |

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

Sample Description: WS-010(3.5-4.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235525  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 11:10 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12103 SDG#: PEM13-06

| CAT No.              | Analysis Name      | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|--------------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07046                | Barium             | 7440-39-3           | 0.0387             | 0.00033                             | 0.0050                            | 1               |
| 07049                | Cadmium            | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 01750                | Calcium            | 7440-70-2           | 5.71               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium          | 7439-95-4           | 2.79               | 0.0167                              | 0.100                             | 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               |
|                      |                    | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury            | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>EPA 1664A</b>    | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease) | n.a.                | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 13:33       | Jason M Long     | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 13:33       | Jason M Long     | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 15:50       | Chad A Moline    | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier   | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:18       | Tara L Snyder    | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:55       | Damary Valentin  | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz    | 1               |

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

Sample Description: WS-010(3.5-4.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235525  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 11:10 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12103 SDG#: PEM13-06

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name      | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst           | Dilution Factor |
|---------|--------------------|--------------|--------|--------------|------------------------|-------------------|-----------------|
| 05713   | WW SW846 Hg Digest | SW-846 7470A | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease) | EPA 1664A    | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: **WS-006(0.5-1.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723526**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 11:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12060 SDG#: PEM13-07

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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



Sample Description: **WS-006(0.5-1.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235526**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 11:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12060 SDG#: PEM13-07

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |

A positive result for residual chlorine was detected in the sample container used for analysis.

| GC/MS | Semivolatiles          | SW-846 8270C SIM | ug/l    | ug/l  | ug/l  |   |
|-------|------------------------|------------------|---------|-------|-------|---|
| 08357 | Acenaphthene           | 83-32-9          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Acenaphthylene         | 208-96-8         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Anthracene             | 120-12-7         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)anthracene     | 56-55-3          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)pyrene         | 50-32-8          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(b)fluoranthene   | 205-99-2         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(g,h,i)perylene   | 191-24-2         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(k)fluoranthene   | 207-08-9         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Chrysene               | 218-01-9         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Dibenz(a,h)anthracene  | 53-70-3          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Fluoranthene           | 206-44-0         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Fluorene               | 86-73-7          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | 1-Methylnaphthalene    | 90-12-0          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | 2-Methylnaphthalene    | 91-57-6          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Naphthalene            | 91-20-3          | 0.034 J | 0.031 | 0.051 | 1 |
| 08357 | Phenanthrene           | 85-01-8          | N.D.    | 0.031 | 0.051 | 1 |
| 08357 | Pyrene                 | 129-00-0         | N.D.    | 0.010 | 0.051 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997          | mg/l        | mg/l        | mg/l        |        |   |
|--------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256  | Total Hardness as CaCO3 | 471-34-1    | 25.4        | 0.033       | 0.20   | 1 |
|        | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035  | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |

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

Sample Description: **WS-006(0.5-1.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723526**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 11:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12060 SDG#: PEM13-07

| CAT No.              | Analysis Name      | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|--------------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07046                | Barium             | 7440-39-3           | 0.0418             | 0.00033                             | 0.0050                            | 1               |
| 07049                | Cadmium            | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 01750                | Calcium            | 7440-70-2           | 5.67               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium          | 7439-95-4           | 2.73               | 0.0167                              | 0.100                             | 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               |
|                      |                    | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury            | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>EPA 1664A</b>    | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease) | n.a.                | N.D.               | 1.4                                 | 5.0                               | 1               |

**General Sample Comments**

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-----------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 13:54       | Jason M Long    | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 13:54       | Jason M Long    | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 16:19       | Chad A Moline   | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier  | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256001 | 10/18/2013 12:23       | Deborah A Krady | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132881848002 | 10/18/2013 09:59       | Eric L Eby      | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132885713005 | 10/17/2013 07:43       | Damary Valentin | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132881848002 | 10/16/2013 11:11       | James L Mertz   | 1               |

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

Sample Description: WS-006(0.5-1.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235526  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 11:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12060 SDG#: PEM13-07

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name      | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst           | Dilution Factor |
|---------|--------------------|--------------|--------|--------------|------------------------|-------------------|-----------------|
| 05713   | WW SW846 Hg Digest | SW-846 7470A | 1      | 132885713005 | 10/16/2013 15:25       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease) | EPA 1664A    | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-005(Surface)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 723527  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 12:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1205S SDG#: PEM13-08

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | 6.4                | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-005(Surface)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723527**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1205S SDG#: PEM13-08

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | 0.1 J              | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.030                               | 0.050                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.030                               | 0.050                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.050                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 27.9        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0380      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: WS-005 (Surface)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235527  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 12:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12055 SDG#: PEM13-08

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 6.37               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.92               | 0.0167                              | 0.100                             | 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               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 14:15       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 14:15       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 16:49       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:22       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:57       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: **WS-002 (Surface)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723528**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:10 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1202S SDG#: PEM13-09

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-002 (Surface)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 723528**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:10 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1202S SDG#: PEM13-09

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.031                               | 0.051                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.031                               | 0.051                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.051                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 23.3        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0312      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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



Sample Description: WS-002 (Surface)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235528  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 12:10 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1202S SDG#: PEM13-09

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.15               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.53               | 0.0167                              | 0.100                             | 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               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 14:36       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 14:36       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 17:18       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 03:26       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 07:59       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: **WS-011(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235529**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12111 SDG#: PEM13-10

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-011(1.5-2.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235529**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12111 SDG#: PEM13-10

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.011                               | 0.053                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | 0.014 J            | 0.011                               | 0.053                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.032                               | 0.053                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.032                               | 0.053                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.011                               | 0.053                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 24.1        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0377      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: WS-011(1.5-2.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235529  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 12:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12111 SDG#: PEM13-10

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.34               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.60               | 0.0167                              | 0.100                             | 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               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 14:57       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 14:57       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 17:47       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:26       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:01       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-011(5.0-5.5)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235530  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 12:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12115 SDG#: PEM13-11

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-011(5.0-5.5)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235530**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12115 SDG#: PEM13-11

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.031                               | 0.052                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.031                               | 0.052                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.052                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 24.9        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0412      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: WS-011(5.0-5.5)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235530  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 12:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12115 SDG#: PEM13-11

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.49               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.72               | 0.0167                              | 0.100                             | 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               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 15:19       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 15:19       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 18:17       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:30       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:03       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: **WS-018 (Surface)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235531**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1218S SDG#: PEM13-12

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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



Sample Description: **WS-018 (Surface) 101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235531**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1218S SDG#: PEM13-12

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>              |                          |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.050                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | 0.033 J            | 0.030                               | 0.050                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.030                               | 0.050                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.050                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |      |   |
|---------------|-------------------------|-------------|-------------|-------------|------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 25.2        | 0.033       | 0.20 | 1 |

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

Sample Description: **WS-018 (Surface)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235531**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 12:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1218S SDG#: PEM13-12

| CAT No.              | Analysis Name      | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|--------------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                | Arsenic            | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                | Barium             | 7440-39-3           | 0.0415             | 0.00033                             | 0.0050                            | 1               |
| 07049                | Cadmium            | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 01750                | Calcium            | 7440-70-2           | 5.63               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium          | 7439-95-4           | 2.71               | 0.0167                              | 0.100                             | 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               |
|                      |                    | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury            | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>EPA 1664A</b>    | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease) | n.a.                | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 15:40       | Jason M Long     | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 15:40       | Jason M Long     | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 18:47       | Chad A Moline    | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier   | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:34       | Tara L Snyder    | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:05       | Damary Valentin  | 1               |

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

Sample Description: WS-018 (Surface) 101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235531  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 12:50 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1218S SDG#: PEM13-12

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst           | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|-------------------|-----------------|
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)            | EPA 1664A    | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-003 (Surface)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235532  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 13:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1203S SDG#: PEM13-13

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-003 (Surface)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235532**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 13:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1203S SDG#: PEM13-13

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | 0.048 J            | 0.031                               | 0.051                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.031                               | 0.051                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.051                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 25.7        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0434      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: WS-003 (Surface)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235532  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 13:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1203S SDG#: PEM13-13

| CAT No.              | Analysis Name      | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|--------------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium            | 7440-70-2           | 5.71               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium          | 7439-95-4           | 2.79               | 0.0167                              | 0.100                             | 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               |
|                      |                    | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury            | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>EPA 1664A</b>    | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease) | n.a.                | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 16:01       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 16:01       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 19:16       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:38       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:08       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-007(0.5-1.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235533  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 13:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1207S SDG#: PEM13-14

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | 5.4                | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-007(0.5-1.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235533**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 13:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1207S SDG#: PEM13-14

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | 0.3 J              | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.051                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.031                               | 0.051                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.031                               | 0.051                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.051                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 22.2        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | 0.0078 J    | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0050      | 0.0033      | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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



Sample Description: WS-007(0.5-1.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235533  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 13:20 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

1207S SDG#: PEM13-14

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.22               | 0.0334                              | 0.200                             | 1               |
| 07051                | Chromium            | 7440-47-3  | 0.0016 J           | 0.0016                              | 0.0150                            | 1               |
| 07055                | Lead                | 7439-92-1  | 0.0061 J           | 0.0047                              | 0.0150                            | 1               |
| 01757                | Magnesium           | 7439-95-4  | 2.21               | 0.0167                              | 0.100                             | 1               |
| 07061                | Nickel              | 7440-02-0  | 0.0034 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  | 0.0040 J           | 0.0020                              | 0.0050                            | 1               |
| <b>SW-846 7470A</b>  |                     |            |                    |                                     |                                   |                 |
|                      |                     |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 16:22       | Jason M Long      | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 16:22       | Jason M Long      | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 19:45       | Chad A Moline     | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier    | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer  | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:42       | Tara L Snyder     | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:14       | Damary Valentin   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)             | EPA 1664A               | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: WS-001(0.5-1.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235534  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 13:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12010 SDG#: PEM13-15

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-001(0.5-1.0)101213 Grab Surface Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235534**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 13:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12010 SDG#: PEM13-15

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |

A positive result for residual chlorine was detected in the sample container used for analysis.

| GC/MS | Semivolatiles          | SW-846 8270C SIM | ug/l    | ug/l  | ug/l  |   |
|-------|------------------------|------------------|---------|-------|-------|---|
| 08357 | Acenaphthene           | 83-32-9          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Acenaphthylene         | 208-96-8         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Anthracene             | 120-12-7         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)anthracene     | 56-55-3          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)pyrene         | 50-32-8          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(b)fluoranthene   | 205-99-2         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(g,h,i)perylene   | 191-24-2         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Benzo(k)fluoranthene   | 207-08-9         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Chrysene               | 218-01-9         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Dibenz(a,h)anthracene  | 53-70-3          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Fluoranthene           | 206-44-0         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Fluorene               | 86-73-7          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5         | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | 1-Methylnaphthalene    | 90-12-0          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | 2-Methylnaphthalene    | 91-57-6          | N.D.    | 0.010 | 0.051 | 1 |
| 08357 | Naphthalene            | 91-20-3          | 0.033 J | 0.031 | 0.051 | 1 |
| 08357 | Phenanthrene           | 85-01-8          | N.D.    | 0.031 | 0.051 | 1 |
| 08357 | Pyrene                 | 129-00-0         | N.D.    | 0.010 | 0.051 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997          | mg/l        | mg/l        | mg/l        |        |   |
|--------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256  | Total Hardness as CaCO3 | 471-34-1    | 24.7        | 0.033       | 0.20   | 1 |
|        | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035  | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |

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

Sample Description: WS-001(0.5-1.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235534  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 13:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12010 SDG#: PEM13-15

| CAT No.              | Analysis Name      | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|--------------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07046                | Barium             | 7440-39-3           | 0.0336             | 0.00033                             | 0.0050                            | 1               |
| 07049                | Cadmium            | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 01750                | Calcium            | 7440-70-2           | 5.53               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium          | 7439-95-4           | 2.65               | 0.0167                              | 0.100                             | 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               |
|                      |                    | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury            | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                    |                     |                    |                                     |                                   |                 |
|                      |                    | <b>EPA 1664A</b>    | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease) | n.a.                | N.D.               | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 16:43       | Jason M Long        | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 16:43       | Jason M Long        | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/17/2013 23:41       | Catherine E Bachman | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier      | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer    | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:54       | Tara L Snyder       | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:16       | Damary Valentin     | 1               |

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

Sample Description: WS-001(0.5-1.0)101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235534  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 13:30 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12010 SDG#: PEM13-15

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst           | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|-------------------|-----------------|
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz     | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan | 1               |
| 08079   | HEM (oil & grease)            | EPA 1664A    | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch  | 1               |

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

Sample Description: **WS-EB-89-101213 Grab Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235535**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 14:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12E89 SDG#: PEM13-16EB

| CAT No.      | Analysis Name               | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>            | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              | <b>purge</b>                |                          |                    |                                     |                                   |                 |
| 02898        | Acetone                     | 67-64-1                  | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898        | Allyl Chloride              | 107-05-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Benzene                     | 71-43-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromobenzene                | 108-86-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromochloromethane          | 74-97-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromodichloromethane        | 75-27-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromoform                   | 75-25-2                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Bromomethane                | 74-83-9                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2-Butanone                  | 78-93-3                  | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | n-Butylbenzene              | 104-51-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | sec-Butylbenzene            | 135-98-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | tert-Butylbenzene           | 98-06-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Carbon Tetrachloride        | 56-23-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chlorobenzene               | 108-90-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroethane                | 75-00-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloroform                  | 67-66-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Chloromethane               | 74-87-3                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 2-Chlorotoluene             | 95-49-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Chlorotoluene             | 106-43-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromo-3-chloropropane | 96-12-8                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Dibromochloromethane        | 124-48-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dibromoethane           | 106-93-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dibromomethane              | 74-95-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichlorobenzene         | 95-50-1                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichlorobenzene         | 541-73-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,4-Dichlorobenzene         | 106-46-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorodifluoromethane     | 75-71-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethane          | 75-34-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloroethane          | 107-06-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloroethene          | 75-35-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,2-Dichloroethene      | 156-59-2                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,2-Dichloroethene    | 156-60-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Dichlorofluoromethane       | 75-43-4                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | 1,2-Dichloropropane         | 78-87-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3-Dichloropropane         | 142-28-9                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 2,2-Dichloropropane         | 594-20-7                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1-Dichloropropene         | 563-58-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | cis-1,3-Dichloropropene     | 10061-01-5               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | trans-1,3-Dichloropropene   | 10061-02-6               | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethyl ether                 | 60-29-7                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Ethylbenzene                | 100-41-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Freon 113                   | 76-13-1                  | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898        | Hexachlorobutadiene         | 87-68-3                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Isopropylbenzene            | 98-82-8                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | p-Isopropyltoluene          | 99-87-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Methyl Tertiary Butyl Ether | 1634-04-4                | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 4-Methyl-2-Pentanone        | 108-10-1                 | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898        | Methylene Chloride          | 75-09-2                  | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: **WS-EB-89-101213 Grab Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235535**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 14:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12E89 SDG#: PEM13-16EB

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.010                               | 0.052                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | 0.044 J            | 0.031                               | 0.052                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.031                               | 0.052                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.010                               | 0.052                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 0.59        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.00050 J   | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: **WS-EB-89-101213 Grab Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7235535**  
 LL Group # **1426120**  
 Account # **14739**

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

Collected: 10/12/2013 14:00 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

12E89 SDG#: PEM13-16EB

| CAT No.       | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b> |               |                     |                    |                                     |                                   |                 |
|               |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750         | Calcium       | 7440-70-2           | 0.191 J            | 0.0334                              | 0.200                             | 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               |
| 01757         | Magnesium     | 7439-95-4           | 0.0281 J           | 0.0167                              | 0.100                             | 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               |
|               |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259         | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 11:25       | Jason M Long         | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 11:25       | Jason M Long         | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/18/2013 00:10       | Catherine E Bachman  | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier       | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132946256010 | 10/21/2013 10:10       | Jennifer L Moyer     | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132911848002 | 10/21/2013 08:02       | Deborah A Krady      | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 04:58       | Tara L Snyder        | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:18       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz        | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 2      | 132911848002 | 10/20/2013 22:30       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan    | 1               |

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



Sample Description: DUP-WS-101-101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235536  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

DP101 SDG#: PEM13-17FD\*

| CAT No. | Analysis Name               | CAS Number        | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS   | Volatiles                   | SW-846 8260B 25mL | ug/l               | ug/l                                | ug/l                              |                 |
|         |                             | purge             |                    |                                     |                                   |                 |
| 02898   | Acetone                     | 67-64-1           | N.D.               | 3.0                                 | 5.0                               | 1               |
| 02898   | Allyl Chloride              | 107-05-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Benzene                     | 71-43-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromobenzene                | 108-86-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromochloromethane          | 74-97-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromodichloromethane        | 75-27-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromoform                   | 75-25-2           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Bromomethane                | 74-83-9           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2-Butanone                  | 78-93-3           | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | n-Butylbenzene              | 104-51-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | sec-Butylbenzene            | 135-98-8          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | tert-Butylbenzene           | 98-06-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Carbon Tetrachloride        | 56-23-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chlorobenzene               | 108-90-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroethane                | 75-00-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloroform                  | 67-66-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Chloromethane               | 74-87-3           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 2-Chlorotoluene             | 95-49-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Chlorotoluene             | 106-43-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromo-3-chloropropane | 96-12-8           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Dibromochloromethane        | 124-48-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dibromoethane           | 106-93-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dibromomethane              | 74-95-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichlorobenzene         | 95-50-1           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichlorobenzene         | 541-73-1          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,4-Dichlorobenzene         | 106-46-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorodifluoromethane     | 75-71-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethane          | 75-34-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloroethane          | 107-06-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloroethene          | 75-35-4           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,2-Dichloroethene      | 156-59-2          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,2-Dichloroethene    | 156-60-5          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Dichlorofluoromethane       | 75-43-4           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | 1,2-Dichloropropane         | 78-87-5           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,3-Dichloropropane         | 142-28-9          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 2,2-Dichloropropane         | 594-20-7          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 1,1-Dichloropropene         | 563-58-6          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | cis-1,3-Dichloropropene     | 10061-01-5        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | trans-1,3-Dichloropropene   | 10061-02-6        | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethyl ether                 | 60-29-7           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Ethylbenzene                | 100-41-4          | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Freon 113                   | 76-13-1           | N.D.               | 0.2                                 | 0.5                               | 1               |
| 02898   | Hexachlorobutadiene         | 87-68-3           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Isopropylbenzene            | 98-82-8           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | p-Isopropyltoluene          | 99-87-6           | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | Methyl Tertiary Butyl Ether | 1634-04-4         | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898   | 4-Methyl-2-Pentanone        | 108-10-1          | N.D.               | 1.0                                 | 5.0                               | 1               |
| 02898   | Methylene Chloride          | 75-09-2           | N.D.               | 0.2                                 | 0.5                               | 1               |

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

Sample Description: DUP-WS-101-101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235536  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

DP101 SDG#: PEM13-17FD\*

| CAT No.      | Analysis Name             | CAS Number               | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b>          | <b>SW-846 8260B 25mL</b> | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
|              |                           | <b>purge</b>             |                    |                                     |                                   |                 |
| 02898        | n-Propylbenzene           | 103-65-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Styrene                   | 100-42-5                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1,2-Tetrachloroethane | 630-20-6                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2,2-Tetrachloroethane | 79-34-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrachloroethene         | 127-18-4                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Tetrahydrofuran           | 109-99-9                 | N.D.               | 2.0                                 | 5.0                               | 1               |
| 02898        | Toluene                   | 108-88-3                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichlorobenzene    | 87-61-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,4-Trichlorobenzene    | 120-82-1                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,1-Trichloroethane     | 71-55-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,1,2-Trichloroethane     | 79-00-5                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichloroethene           | 79-01-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Trichlorofluoromethane    | 75-69-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,2,3-Trichloropropane    | 96-18-4                  | N.D.               | 0.3                                 | 1.0                               | 1               |
| 02898        | 1,2,4-Trimethylbenzene    | 95-63-6                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | 1,3,5-Trimethylbenzene    | 108-67-8                 | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Vinyl Chloride            | 75-01-4                  | N.D.               | 0.1                                 | 0.5                               | 1               |
| 02898        | Xylene (Total)            | 1330-20-7                | N.D.               | 0.1                                 | 0.5                               | 1               |
| <b>GC/MS</b> | <b>Semivolatiles</b>      | <b>SW-846 8270C SIM</b>  | <b>ug/l</b>        | <b>ug/l</b>                         | <b>ug/l</b>                       |                 |
| 08357        | Acenaphthene              | 83-32-9                  | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Acenaphthylene            | 208-96-8                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Anthracene                | 120-12-7                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Benzo(a)anthracene        | 56-55-3                  | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Benzo(a)pyrene            | 50-32-8                  | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Benzo(b)fluoranthene      | 205-99-2                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Benzo(g,h,i)perylene      | 191-24-2                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Benzo(k)fluoranthene      | 207-08-9                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Chrysene                  | 218-01-9                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Dibenz(a,h)anthracene     | 53-70-3                  | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Fluoranthene              | 206-44-0                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Fluorene                  | 86-73-7                  | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Indeno(1,2,3-cd)pyrene    | 193-39-5                 | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | 1-Methylnaphthalene       | 90-12-0                  | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | 2-Methylnaphthalene       | 91-57-6                  | N.D.               | 0.011                               | 0.055                             | 1               |
| 08357        | Naphthalene               | 91-20-3                  | N.D.               | 0.033                               | 0.055                             | 1               |
| 08357        | Phenanthrene              | 85-01-8                  | N.D.               | 0.033                               | 0.055                             | 1               |
| 08357        | Pyrene                    | 129-00-0                 | N.D.               | 0.011                               | 0.055                             | 1               |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| <b>Metals</b> | <b>SM 2340 B-1997</b>   | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256         | Total Hardness as CaCO3 | 471-34-1    | 25.0        | 0.033       | 0.20   | 1 |
|               | <b>SW-846 6010B</b>     | <b>mg/l</b> | <b>mg/l</b> | <b>mg/l</b> |        |   |
| 07035         | Arsenic                 | 7440-38-2   | N.D.        | 0.0068      | 0.0200 | 1 |
| 07046         | Barium                  | 7440-39-3   | 0.0380      | 0.00033     | 0.0050 | 1 |
| 07049         | Cadmium                 | 7440-43-9   | N.D.        | 0.00076     | 0.0050 | 1 |

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

Sample Description: DUP-WS-101-101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235536  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

DP101 SDG#: PEM13-17FD\*

| CAT No.              | Analysis Name       | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals</b>        |                     |            |                    |                                     |                                   |                 |
|                      | <b>SW-846 6010B</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 01750                | Calcium             | 7440-70-2  | 5.57               | 0.0334                              | 0.200                             | 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               |
| 01757                | Magnesium           | 7439-95-4  | 2.68               | 0.0167                              | 0.100                             | 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               |
|                      | <b>SW-846 7470A</b> |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                | Mercury             | 7439-97-6  | N.D.               | 0.000060                            | 0.00020                           | 1               |
| <b>Wet Chemistry</b> |                     |            |                    |                                     |                                   |                 |
|                      | <b>EPA 1664A</b>    |            | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 08079                | HEM (oil & grease)  | n.a.       | 2.0 J              | 1.4                                 | 5.0                               | 1               |

### General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898   | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1      | G132881AA    | 10/15/2013 17:04       | Jason M Long        | 1               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | G132881AA    | 10/15/2013 17:04       | Jason M Long        | 1               |
| 08357   | PAHs in waters by SIM          | SW-846 8270C SIM        | 1      | 13288WAB026  | 10/18/2013 00:40       | Catherine E Bachman | 1               |
| 10470   | BNA Water Extraction (SIM)     | SW-846 3510C            | 1      | 13288WAB026  | 10/15/2013 15:30       | Seth A Farrier      | 1               |
| 06256   | Total Hardness as CaCO3        | SM 2340 B-1997          | 1      | 132916256010 | 10/18/2013 08:45       | Jennifer L Moyer    | 1               |
| 07035   | Arsenic                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07046   | Barium                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07049   | Cadmium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07051   | Chromium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07055   | Lead                           | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 01757   | Magnesium                      | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07061   | Nickel                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07036   | Selenium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07066   | Silver                         | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 07071   | Vanadium                       | SW-846 6010B            | 1      | 132871848008 | 10/18/2013 05:02       | Tara L Snyder       | 1               |
| 00259   | Mercury                        | SW-846 7470A            | 1      | 132875713003 | 10/16/2013 08:20       | Damary Valentin     | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 132871848008 | 10/15/2013 07:13       | James L Mertz       | 1               |
| 05713   | WW SW846 Hg Digest             | SW-846 7470A            | 1      | 132875713003 | 10/15/2013 16:50       | Nelli S Markaryan   | 1               |

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

Sample Description: DUP-WS-101-101213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7235536  
LL Group # 1426120  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/12/2013 by HVA

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

Submitted: 10/14/2013 11:05

Reported: 10/21/2013 10:44

DP101 SDG#: PEM13-17FD\*

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name      | Method    | Trial# | Batch#       | Analysis Date and Time | Analyst          | Dilution Factor |
|---------|--------------------|-----------|--------|--------------|------------------------|------------------|-----------------|
| 08079   | HEM (oil & grease) | EPA 1664A | 1      | 13291807901A | 10/18/2013 07:40       | Yolunder Y Bunch | 1               |

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

## Quality Control Summary

Client Name: ExxonMobil c/o Arcadis  
Reported: 10/21/13 at 10:44 AM

Group Number: 1426120

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: G132881AA     | Sample number(s): 7235520-7235536 |                    |                  |                     |                 |                  |                        |            |                |
| Acetone                     | N.D.                              | 3.0                | 5.0              | ug/l                | 89              |                  | 60-139                 |            |                |
| Allyl Chloride              | N.D.                              | 0.1                | 0.5              | ug/l                | 80              |                  | 61-130                 |            |                |
| Benzene                     | N.D.                              | 0.1                | 0.5              | ug/l                | 99              |                  | 80-120                 |            |                |
| Bromobenzene                | N.D.                              | 0.1                | 0.5              | ug/l                | 103             |                  | 80-120                 |            |                |
| Bromochloromethane          | N.D.                              | 0.1                | 0.5              | ug/l                | 107             |                  | 80-125                 |            |                |
| Bromodichloromethane        | N.D.                              | 0.1                | 0.5              | ug/l                | 100             |                  | 80-120                 |            |                |
| Bromoform                   | N.D.                              | 0.1                | 0.5              | ug/l                | 108             |                  | 73-128                 |            |                |
| Bromomethane                | N.D.                              | 0.1                | 0.5              | ug/l                | 107             |                  | 62-126                 |            |                |
| 2-Butanone                  | N.D.                              | 1.0                | 5.0              | ug/l                | 84              |                  | 70-130                 |            |                |
| n-Butylbenzene              | N.D.                              | 0.1                | 0.5              | ug/l                | 94              |                  | 80-120                 |            |                |
| sec-Butylbenzene            | N.D.                              | 0.1                | 0.5              | ug/l                | 96              |                  | 80-120                 |            |                |
| tert-Butylbenzene           | N.D.                              | 0.1                | 0.5              | ug/l                | 96              |                  | 80-120                 |            |                |
| Carbon Tetrachloride        | N.D.                              | 0.1                | 0.5              | ug/l                | 95              |                  | 80-129                 |            |                |
| Chlorobenzene               | N.D.                              | 0.1                | 0.5              | ug/l                | 102             |                  | 80-120                 |            |                |
| Chloroethane                | N.D.                              | 0.1                | 0.5              | ug/l                | 92              |                  | 68-120                 |            |                |
| Chloroform                  | N.D.                              | 0.1                | 0.5              | ug/l                | 102             |                  | 80-120                 |            |                |
| Chloromethane               | N.D.                              | 0.2                | 0.5              | ug/l                | 89              |                  | 55-120                 |            |                |
| 2-Chlorotoluene             | N.D.                              | 0.1                | 0.5              | ug/l                | 99              |                  | 80-120                 |            |                |
| 4-Chlorotoluene             | N.D.                              | 0.1                | 0.5              | ug/l                | 99              |                  | 80-120                 |            |                |
| 1,2-Dibromo-3-chloropropane | N.D.                              | 0.2                | 0.5              | ug/l                | 99              |                  | 64-141                 |            |                |
| Dibromochloromethane        | N.D.                              | 0.1                | 0.5              | ug/l                | 103             |                  | 80-126                 |            |                |
| 1,2-Dibromoethane           | N.D.                              | 0.1                | 0.5              | ug/l                | 103             |                  | 80-120                 |            |                |
| Dibromomethane              | N.D.                              | 0.1                | 0.5              | ug/l                | 107             |                  | 80-120                 |            |                |
| 1,2-Dichlorobenzene         | N.D.                              | 0.1                | 0.5              | ug/l                | 103             |                  | 80-120                 |            |                |
| 1,3-Dichlorobenzene         | N.D.                              | 0.1                | 0.5              | ug/l                | 104             |                  | 80-120                 |            |                |
| 1,4-Dichlorobenzene         | N.D.                              | 0.1                | 0.5              | ug/l                | 103             |                  | 80-120                 |            |                |
| Dichlorodifluoromethane     | N.D.                              | 0.1                | 0.5              | ug/l                | 110             |                  | 39-120                 |            |                |
| 1,1-Dichloroethane          | N.D.                              | 0.1                | 0.5              | ug/l                | 96              |                  | 80-120                 |            |                |
| 1,2-Dichloroethane          | N.D.                              | 0.1                | 0.5              | ug/l                | 103             |                  | 80-127                 |            |                |
| 1,1-Dichloroethene          | N.D.                              | 0.1                | 0.5              | ug/l                | 101             |                  | 80-123                 |            |                |
| cis-1,2-Dichloroethene      | N.D.                              | 0.1                | 0.5              | ug/l                | 103             |                  | 80-120                 |            |                |
| trans-1,2-Dichloroethene    | N.D.                              | 0.1                | 0.5              | ug/l                | 102             |                  | 80-120                 |            |                |
| Dichlorofluoromethane       | N.D.                              | 0.2                | 0.5              | ug/l                | 113             |                  | 75-145                 |            |                |
| 1,2-Dichloropropane         | N.D.                              | 0.1                | 0.5              | ug/l                | 99              |                  | 80-120                 |            |                |
| 1,3-Dichloropropane         | N.D.                              | 0.1                | 0.5              | ug/l                | 98              |                  | 80-120                 |            |                |
| 2,2-Dichloropropane         | N.D.                              | 0.1                | 0.5              | ug/l                | 97              |                  | 75-122                 |            |                |
| 1,1-Dichloropropene         | N.D.                              | 0.1                | 0.5              | ug/l                | 98              |                  | 80-121                 |            |                |
| cis-1,3-Dichloropropene     | N.D.                              | 0.1                | 0.5              | ug/l                | 102             |                  | 80-123                 |            |                |
| trans-1,3-Dichloropropene   | N.D.                              | 0.1                | 0.5              | ug/l                | 93              |                  | 80-120                 |            |                |
| Ethyl ether                 | N.D.                              | 0.1                | 0.5              | ug/l                | 90              |                  | 59-130                 |            |                |
| Ethylbenzene                | N.D.                              | 0.1                | 0.5              | ug/l                | 98              |                  | 80-120                 |            |                |
| Freon 113                   | N.D.                              | 0.2                | 0.5              | ug/l                | 98              |                  | 78-132                 |            |                |
| Hexachlorobutadiene         | N.D.                              | 0.1                | 0.5              | ug/l                | 93              |                  | 73-120                 |            |                |

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: ExxonMobil c/o Arcadis  
Reported: 10/21/13 at 10:44 AM

Group Number: 1426120

| <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>LCS D %REC</u> | <u>LCS/LCS D Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|-----------------------------|---------------------|--------------------|------------------|---------------------|-----------------|-------------------|-------------------------|------------|----------------|
| Isopropylbenzene            | N.D.                | 0.1                | 0.5              | ug/l                | 98              |                   | 80-120                  |            |                |
| p-Isopropyltoluene          | N.D.                | 0.1                | 0.5              | ug/l                | 95              |                   | 80-120                  |            |                |
| Methyl Tertiary Butyl Ether | N.D.                | 0.1                | 0.5              | ug/l                | 98              |                   | 80-120                  |            |                |
| 4-Methyl-2-Pentanone        | N.D.                | 1.0                | 5.0              | ug/l                | 93              |                   | 69-135                  |            |                |
| Methylene Chloride          | N.D.                | 0.2                | 0.5              | ug/l                | 101             |                   | 80-120                  |            |                |
| n-Propylbenzene             | N.D.                | 0.1                | 0.5              | ug/l                | 96              |                   | 80-120                  |            |                |
| Styrene                     | N.D.                | 0.1                | 0.5              | ug/l                | 100             |                   | 80-120                  |            |                |
| 1,1,1,2-Tetrachloroethane   | N.D.                | 0.1                | 0.5              | ug/l                | 97              |                   | 80-120                  |            |                |
| 1,1,2,2-Tetrachloroethane   | N.D.                | 0.1                | 0.5              | ug/l                | 100             |                   | 80-125                  |            |                |
| Tetrachloroethene           | N.D.                | 0.1                | 0.5              | ug/l                | 104             |                   | 80-120                  |            |                |
| Tetrahydrofuran             | N.D.                | 2.0                | 5.0              | ug/l                | 84              |                   | 65-131                  |            |                |
| Toluene                     | N.D.                | 0.1                | 0.5              | ug/l                | 98              |                   | 80-120                  |            |                |
| 1,2,3-Trichlorobenzene      | N.D.                | 0.1                | 0.5              | ug/l                | 93              |                   | 63-120                  |            |                |
| 1,2,4-Trichlorobenzene      | N.D.                | 0.1                | 0.5              | ug/l                | 96              |                   | 70-120                  |            |                |
| 1,1,1-Trichloroethane       | N.D.                | 0.1                | 0.5              | ug/l                | 99              |                   | 80-120                  |            |                |
| 1,1,2-Trichloroethane       | N.D.                | 0.1                | 0.5              | ug/l                | 102             |                   | 80-120                  |            |                |
| Trichloroethene             | N.D.                | 0.1                | 0.5              | ug/l                | 102             |                   | 80-120                  |            |                |
| Trichlorofluoromethane      | N.D.                | 0.1                | 0.5              | ug/l                | 108             |                   | 77-132                  |            |                |
| 1,2,3-Trichloropropane      | N.D.                | 0.3                | 1.0              | ug/l                | 105             |                   | 80-120                  |            |                |
| 1,2,4-Trimethylbenzene      | N.D.                | 0.1                | 0.5              | ug/l                | 96              |                   | 80-120                  |            |                |
| 1,3,5-Trimethylbenzene      | N.D.                | 0.1                | 0.5              | ug/l                | 95              |                   | 80-120                  |            |                |
| Vinyl Chloride              | N.D.                | 0.1                | 0.5              | ug/l                | 97              |                   | 65-127                  |            |                |
| Xylene (Total)              | N.D.                | 0.1                | 0.5              | ug/l                | 100             |                   | 80-120                  |            |                |

Batch number: 13288WAB026

Sample number(s): 7235520-7235536

|                        |      |       |       |      |     |     |        |   |    |
|------------------------|------|-------|-------|------|-----|-----|--------|---|----|
| Acenaphthene           | N.D. | 0.010 | 0.050 | ug/l | 107 | 103 | 77-118 | 3 | 30 |
| Acenaphthylene         | N.D. | 0.010 | 0.050 | ug/l | 110 | 109 | 80-123 | 1 | 30 |
| Anthracene             | N.D. | 0.010 | 0.050 | ug/l | 108 | 109 | 78-123 | 1 | 30 |
| Benzo(a)anthracene     | N.D. | 0.010 | 0.050 | ug/l | 102 | 100 | 73-127 | 2 | 30 |
| Benzo(a)pyrene         | N.D. | 0.010 | 0.050 | ug/l | 106 | 103 | 72-120 | 2 | 30 |
| Benzo(b)fluoranthene   | N.D. | 0.010 | 0.050 | ug/l | 112 | 110 | 79-136 | 2 | 30 |
| Benzo(g,h,i)perylene   | N.D. | 0.010 | 0.050 | ug/l | 112 | 110 | 64-130 | 1 | 30 |
| Benzo(k)fluoranthene   | N.D. | 0.010 | 0.050 | ug/l | 115 | 113 | 73-131 | 1 | 30 |
| Chrysene               | N.D. | 0.010 | 0.050 | ug/l | 103 | 104 | 76-125 | 1 | 30 |
| Dibenz(a,h)anthracene  | N.D. | 0.010 | 0.050 | ug/l | 105 | 108 | 58-131 | 3 | 30 |
| Fluoranthene           | N.D. | 0.010 | 0.050 | ug/l | 104 | 103 | 79-124 | 0 | 30 |
| Fluorene               | N.D. | 0.010 | 0.050 | ug/l | 100 | 101 | 74-115 | 0 | 30 |
| Indeno(1,2,3-cd)pyrene | N.D. | 0.010 | 0.050 | ug/l | 108 | 106 | 62-130 | 2 | 30 |
| 1-Methylnaphthalene    | N.D. | 0.010 | 0.050 | ug/l | 110 | 110 | 80-126 | 0 | 30 |
| 2-Methylnaphthalene    | N.D. | 0.010 | 0.050 | ug/l | 107 | 108 | 81-124 | 1 | 30 |
| Naphthalene            | N.D. | 0.030 | 0.050 | ug/l | 106 | 105 | 75-120 | 1 | 30 |
| Phenanthrene           | N.D. | 0.030 | 0.050 | ug/l | 102 | 103 | 75-120 | 0 | 30 |
| Pyrene                 | N.D. | 0.010 | 0.050 | ug/l | 109 | 109 | 71-130 | 0 | 30 |

Batch number: 132871848008

Sample number(s): 7235520-7235525,7235527-7235536

|           |       |         |        |       |      |     |        |  |  |
|-----------|-------|---------|--------|-------|------|-----|--------|--|--|
| Arsenic   | N.D.  | 0.0068  | 0.0200 | mg/l  | 100  |     | 90-113 |  |  |
| Barium    | N.D.  | 0.00033 | 0.0050 | mg/l  | 101  |     | 90-110 |  |  |
| Cadmium   | N.D.  | 0.00076 | 0.0050 | mg/l  | 102  |     | 90-112 |  |  |
| Calcium   | 0.140 | J       | 0.0334 | 0.200 | mg/l | 100 | 90-112 |  |  |
| Chromium  | N.D.  | 0.0016  | 0.0150 | mg/l  | 99   |     | 90-110 |  |  |
| Lead      | N.D.  | 0.0047  | 0.0150 | mg/l  | 106  |     | 88-110 |  |  |
| Magnesium | N.D.  | 0.0167  | 0.100  | mg/l  | 99   |     | 89-110 |  |  |
| Nickel    | N.D.  | 0.0015  | 0.0100 | mg/l  | 103  |     | 90-111 |  |  |
| Selenium  | N.D.  | 0.0084  | 0.0200 | mg/l  | 103  |     | 80-120 |  |  |
| Silver    | N.D.  | 0.0021  | 0.0050 | mg/l  | 90   |     | 80-120 |  |  |
| Vanadium  | N.D.  | 0.0020  | 0.0050 | mg/l  | 100  |     | 90-110 |  |  |

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: ExxonMobil c/o Arcadis  
Reported: 10/21/13 at 10:44 AM

Group Number: 1426120

| <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: 132875713003 | Sample number(s): 7235520-7235525,7235527-7235536 |                    |                  |                     |                 |                  |                        |            |                |
| Mercury                    | N.D.  | 0.00006            | 0.00020          | mg/l                | 98              |                  | 80-120                 |            |                |
|                            |   | 0                  |                  |                     |                 |                  |                        |            |                |
| Batch number: 132881848002 | Sample number(s): 7235526                         |                    |                  |                     |                 |                  |                        |            |                |
| Arsenic                    | N.D.  | 0.0068             | 0.0200           | mg/l                | 101             |                  | 90-113                 |            |                |
| Barium                     | N.D.  | 0.00033            | 0.0050           | mg/l                | 101             |                  | 90-110                 |            |                |
| Cadmium                    | N.D.  | 0.00076            | 0.0050           | mg/l                | 102             |                  | 90-112                 |            |                |
| Calcium                    | N.D.  | 0.0334             | 0.200            | mg/l                | 102             |                  | 90-112                 |            |                |
| Chromium                   | N.D.  | 0.0016             | 0.0150           | mg/l                | 100             |                  | 90-110                 |            |                |
| Lead                       | N.D.  | 0.0047             | 0.0150           | mg/l                | 105             |                  | 88-110                 |            |                |
| Magnesium                  | N.D.  | 0.0167             | 0.100            | mg/l                | 100             |                  | 89-110                 |            |                |
| Nickel                     | N.D.  | 0.0015             | 0.0100           | mg/l                | 105             |                  | 90-111                 |            |                |
| Selenium                   | N.D.  | 0.0084             | 0.0200           | mg/l                | 100             |                  | 80-120                 |            |                |
| Silver                     | N.D.  | 0.0021             | 0.0050           | mg/l                | 97              |                  | 80-120                 |            |                |
| Vanadium                   | N.D.  | 0.0020             | 0.0050           | mg/l                | 98              |                  | 90-110                 |            |                |
| Batch number: 132885713005 | Sample number(s): 7235526                         |                    |                  |                     |                 |                  |                        |            |                |
| Mercury                    | N.D.  | 0.00006            | 0.00020          | mg/l                | 95              |                  | 80-120                 |            |                |
|                            |   | 0                  |                  |                     |                 |                  |                        |            |                |
| Batch number: 132911848002 | Sample number(s): 7235535                         |                    |                  |                     |                 |                  |                        |            |                |
| Calcium                    | 0.0954 J  | 0.0334             | 0.200            | mg/l                | 101             |                  | 90-112                 |            |                |
| Batch number: 13291807901A | Sample number(s): 7235520-7235534,7235536         |                    |                  |                     |                 |                  |                        |            |                |
| HEM (oil & grease)         | N.D.  | 1.4                | 5.0              | mg/l                | 84              | 92               | 78-114                 | 9          | 16             |

## 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: G132881AA | Sample number(s): 7235520-7235536 UNSPK: 7235520 |                 |                      |            |                |                 |                 |                |                    |
| Acetone                 | 101  | 109             | 57-163               | 7          | 30             |                 |                 |                |                    |
| Allyl Chloride          | 86   | 89              | 56-160               | 4          | 30             |                 |                 |                |                    |
| Benzene                 | 108  | 111             | 87-126               | 4          | 30             |                 |                 |                |                    |
| Bromobenzene            | 108  | 113             | 80-123               | 5          | 30             |                 |                 |                |                    |
| Bromochloromethane      | 110  | 115             | 82-125               | 4          | 30             |                 |                 |                |                    |
| Bromodichloromethane    | 104  | 109             | 82-133               | 5          | 30             |                 |                 |                |                    |
| Bromoform               | 103  | 109             | 60-138               | 5          | 30             |                 |                 |                |                    |
| Bromomethane            | 118  | 121             | 66-130               | 2          | 30             |                 |                 |                |                    |
| 2-Butanone              | 84   | 90              | 56-160               | 7          | 30             |                 |                 |                |                    |
| n-Butylbenzene          | 103  | 109             | 83-131               | 6          | 30             |                 |                 |                |                    |
| sec-Butylbenzene        | 104  | 111             | 84-128               | 7          | 30             |                 |                 |                |                    |
| tert-Butylbenzene       | 104  | 111             | 84-135               | 7          | 30             |                 |                 |                |                    |
| Carbon Tetrachloride    | 106  | 112             | 81-148               | 5          | 30             |                 |                 |                |                    |
| Chlorobenzene           | 107  | 112             | 78-133               | 5          | 30             |                 |                 |                |                    |
| Chloroethane            | 103  | 106             | 70-139               | 3          | 30             |                 |                 |                |                    |
| Chloroform              | 110  | 114             | 86-136               | 3          | 30             |                 |                 |                |                    |
| Chloromethane           | 99   | 102             | 49-135               | 3          | 30             |                 |                 |                |                    |

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: ExxonMobil c/o Arcadis  
Reported: 10/21/13 at 10:44 AM

Group Number: 1426120

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

| <u>Analysis Name</u>        | <u>MS</u><br><u>%REC</u> | <u>MSD</u><br><u>%REC</u> | <u>MS/MSD</u><br><u>Limits</u> | <u>RPD</u><br><u>RPD</u> | <u>RPD</u><br><u>MAX</u> | <u>BKG</u><br><u>Conc</u> | <u>DUP</u><br><u>Conc</u> | <u>DUP</u><br><u>RPD</u> | <u>Dup RPD</u><br><u>Max</u> |
|-----------------------------|--------------------------|---------------------------|--------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|------------------------------|
| 2-Chlorotoluene             | 104                      | 111                       | 75-134                         | 6                        | 30                       |                           |                           |                          |                              |
| 4-Chlorotoluene             | 104                      | 110                       | 76-134                         | 5                        | 30                       |                           |                           |                          |                              |
| 1,2-Dibromo-3-chloropropane | 95                       | 107                       | 43-143                         | 12                       | 30                       |                           |                           |                          |                              |
| Dibromochloromethane        | 102                      | 107                       | 79-125                         | 6                        | 30                       |                           |                           |                          |                              |
| 1,2-Dibromoethane           | 102                      | 106                       | 84-127                         | 4                        | 30                       |                           |                           |                          |                              |
| Dibromomethane              | 109                      | 114                       | 83-126                         | 4                        | 30                       |                           |                           |                          |                              |
| 1,2-Dichlorobenzene         | 106                      | 113                       | 83-117                         | 6                        | 30                       |                           |                           |                          |                              |
| 1,3-Dichlorobenzene         | 108                      | 115                       | 79-132                         | 6                        | 30                       |                           |                           |                          |                              |
| 1,4-Dichlorobenzene         | 107                      | 114                       | 79-120                         | 7                        | 30                       |                           |                           |                          |                              |
| Dichlorodifluoromethane     | 122                      | 118                       | 28-136                         | 3                        | 30                       |                           |                           |                          |                              |
| 1,1-Dichloroethane          | 107                      | 109                       | 88-136                         | 1                        | 30                       |                           |                           |                          |                              |
| 1,2-Dichloroethane          | 110                      | 111                       | 82-135                         | 1                        | 30                       |                           |                           |                          |                              |
| 1,1-Dichloroethene          | 115                      | 119                       | 83-150                         | 3                        | 30                       |                           |                           |                          |                              |
| cis-1,2-Dichloroethene      | 112                      | 114                       | 82-129                         | 2                        | 30                       |                           |                           |                          |                              |
| trans-1,2-Dichloroethene    | 114                      | 117                       | 88-127                         | 2                        | 30                       |                           |                           |                          |                              |
| Dichlorofluoromethane       | 125                      | 128                       | 81-161                         | 3                        | 30                       |                           |                           |                          |                              |
| 1,2-Dichloropropane         | 104                      | 108                       | 91-126                         | 3                        | 30                       |                           |                           |                          |                              |
| 1,3-Dichloropropane         | 98                       | 103                       | 80-127                         | 6                        | 30                       |                           |                           |                          |                              |
| 2,2-Dichloropropane         | 106                      | 109                       | 80-134                         | 3                        | 30                       |                           |                           |                          |                              |
| 1,1-Dichloropropene         | 111                      | 114                       | 86-139                         | 3                        | 30                       |                           |                           |                          |                              |
| cis-1,3-Dichloropropene     | 103                      | 109                       | 74-132                         | 5                        | 30                       |                           |                           |                          |                              |
| trans-1,3-Dichloropropene   | 90                       | 96                        | 71-128                         | 6                        | 30                       |                           |                           |                          |                              |
| Ethyl ether                 | 83                       | 94                        | 57-139                         | 12                       | 30                       |                           |                           |                          |                              |
| Ethylbenzene                | 105                      | 109                       | 80-140                         | 4                        | 30                       |                           |                           |                          |                              |
| Freon 113                   | 113                      | 107                       | 77-147                         | 6                        | 30                       |                           |                           |                          |                              |
| Hexachlorobutadiene         | 103                      | 109                       | 65-128                         | 6                        | 30                       |                           |                           |                          |                              |
| Isopropylbenzene            | 106                      | 111                       | 81-133                         | 4                        | 30                       |                           |                           |                          |                              |
| p-Isopropyltoluene          | 105                      | 109                       | 84-124                         | 4                        | 30                       |                           |                           |                          |                              |
| Methyl Tertiary Butyl Ether | 99                       | 103                       | 82-132                         | 3                        | 30                       |                           |                           |                          |                              |
| 4-Methyl-2-Pentanone        | 90                       | 94                        | 69-149                         | 4                        | 30                       |                           |                           |                          |                              |
| Methylene Chloride          | 108                      | 111                       | 77-135                         | 3                        | 30                       |                           |                           |                          |                              |
| n-Propylbenzene             | 103                      | 110                       | 79-131                         | 7                        | 30                       |                           |                           |                          |                              |
| Styrene                     | 104                      | 107                       | 63-151                         | 4                        | 30                       |                           |                           |                          |                              |
| 1,1,1,2-Tetrachloroethane   | 100                      | 106                       | 87-126                         | 6                        | 30                       |                           |                           |                          |                              |
| 1,1,2,2-Tetrachloroethane   | 97                       | 103                       | 75-131                         | 6                        | 30                       |                           |                           |                          |                              |
| Tetrachloroethene           | 114                      | 119                       | 75-129                         | 4                        | 30                       |                           |                           |                          |                              |
| Tetrahydrofuran             | 86                       | 95                        | 56-154                         | 10                       | 30                       |                           |                           |                          |                              |
| Toluene                     | 105                      | 108                       | 83-127                         | 3                        | 30                       |                           |                           |                          |                              |
| 1,2,3-Trichlorobenzene      | 95                       | 102                       | 73-125                         | 7                        | 30                       |                           |                           |                          |                              |
| 1,2,4-Trichlorobenzene      | 98                       | 106                       | 77-120                         | 8                        | 30                       |                           |                           |                          |                              |
| 1,1,1-Trichloroethane       | 111                      | 116                       | 85-140                         | 4                        | 30                       |                           |                           |                          |                              |
| 1,1,2-Trichloroethane       | 102                      | 109                       | 85-129                         | 6                        | 30                       |                           |                           |                          |                              |
| Trichloroethene             | 112                      | 116                       | 85-131                         | 3                        | 30                       |                           |                           |                          |                              |
| Trichlorofluoromethane      | 122                      | 123                       | 73-139                         | 1                        | 30                       |                           |                           |                          |                              |
| 1,2,3-Trichloropropane      | 101                      | 108                       | 76-120                         | 6                        | 30                       |                           |                           |                          |                              |
| 1,2,4-Trimethylbenzene      | 101                      | 108                       | 87-126                         | 7                        | 30                       |                           |                           |                          |                              |
| 1,3,5-Trimethylbenzene      | 101                      | 107                       | 89-129                         | 6                        | 30                       |                           |                           |                          |                              |
| Vinyl Chloride              | 111                      | 114                       | 62-135                         | 2                        | 30                       |                           |                           |                          |                              |
| Xylene (Total)              | 106                      | 111                       | 81-137                         | 4                        | 30                       |                           |                           |                          |                              |

Batch number: 132871848008

Sample number(s): 7235520-7235525,7235527-7235536 UNSPK: 7235528 BKG: 7235528

Arsenic 103 103 81-123 0 20 N.D. N.D. 0 (1) 20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: ExxonMobil c/o Arcadis  
Reported: 10/21/13 at 10:44 AM

Group Number: 1426120

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

| <u>Analysis Name</u>  | <u>MS</u><br><u>%REC</u> | <u>MSD</u><br><u>%REC</u> | <u>MS/MSD</u><br><u>Limits</u> | <u>RPD</u> | <u>RPD</u><br><u>MAX</u> | <u>BKG</u><br><u>Conc</u> | <u>DUP</u><br><u>Conc</u> | <u>DUP</u><br><u>RPD</u> | <u>Dup</u><br><u>RPD</u><br><u>Max</u> |
|---|--------------------------|---------------------------|--------------------------------|------------|--------------------------|---------------------------|---------------------------|--------------------------|--|
| Barium  | 104                      | 107                       | 78-118                         | 3          | 20                       | 0.0312                    | 0.0316                    | 1                        | 20                                     |
| Cadmium   | 104                      | 103                       | 83-116                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Calcium   | 102                      | 98                        | 75-125                         | 2          | 20                       | 5.15                      | 5.24                      | 2                        | 20                                     |
| Chromium  | 103                      | 104                       | 76-120                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Lead  | 108                      | 108                       | 75-125                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Magnesium   | 100                      | 96                        | 75-125                         | 2          | 20                       | 2.53                      | 2.56                      | 1                        | 20                                     |
| Nickel  | 107                      | 105                       | 86-115                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Selenium  | 108                      | 102                       | 75-125                         | 5          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Silver  | 93                       | 95                        | 75-125                         | 2          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Vanadium  | 105                      | 106                       | 90-117                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Batch number: 132875713003      Sample number(s): 7235520-7235525,7235527-7235536      UNSPK: 7235522      BKG: 7235522 |                          |                           |                                |            |                          |                           |                           |                          |  |
| Mercury   | 100                      | 101                       | 80-120                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Batch number: 132881848002      Sample number(s): 7235526      UNSPK: P235581      BKG: P235581                         |                          |                           |                                |            |                          |                           |                           |                          |  |
| Arsenic   | 105                      | 104                       | 81-123                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Barium  | 102                      | 102                       | 78-118                         | 0          | 20                       | 0.0171                    | 0.0167                    | 2 (1)                    | 20                                     |
| Cadmium   | 104                      | 104                       | 83-116                         | 0          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Calcium   | 102                      | 101                       | 75-125                         | 1          | 20                       | 5.40                      | 5.36                      | 1                        | 20                                     |
| Chromium  | 102                      | 102                       | 76-120                         | 0          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Lead  | 108                      | 106                       | 75-125                         | 2          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Magnesium   | 101                      | 100                       | 75-125                         | 1          | 20                       | 2.60                      | 2.58                      | 1                        | 20                                     |
| Nickel  | 106                      | 106                       | 86-115                         | 0          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Selenium  | 103                      | 103                       | 75-125                         | 0          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Silver  | 99                       | 98                        | 75-125                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Vanadium  | 100                      | 99                        | 90-117                         | 1          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Batch number: 132885713005      Sample number(s): 7235526      UNSPK: P236684      BKG: P236684                         |                          |                           |                                |            |                          |                           |                           |                          |  |
| Mercury   | 97                       | 93                        | 80-120                         | 4          | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                     |
| Batch number: 132911848002      Sample number(s): 7235535      UNSPK: P242069      BKG: P242069                         |                          |                           |                                |            |                          |                           |                           |                          |  |
| Calcium   | 94                       | 94                        | 75-125                         | 0          | 20                       | 5.27                      | 5.21                      | 1                        | 20                                     |
| Batch number: 13291807901A      Sample number(s): 7235520-7235534,7235536      UNSPK: 7235534                           |                          |                           |                                |            |                          |                           |                           |                          |  |
| HEM (oil & grease)  | 80                       |                           | 78-114                         |            |                          |                           |                           |                          |  |

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 25-ml purge  
Batch number: G132881AA

|         | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 7235520 | 103                  | 102                   | 95         | 92                   |
| 7235521 | 103                  | 105                   | 96         | 93                   |
| 7235522 | 103                  | 103                   | 95         | 93                   |
| 7235523 | 104                  | 106                   | 95         | 92                   |

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: ExxonMobil c/o Arcadis  
Reported: 10/21/13 at 10:44 AM

Group Number: 1426120

### Surrogate Quality Control

|         |     |     |    |    |
|---------|-----|-----|----|----|
| 7235524 | 103 | 103 | 95 | 94 |
| 7235525 | 105 | 105 | 95 | 93 |
| 7235526 | 104 | 106 | 95 | 92 |
| 7235527 | 104 | 104 | 95 | 92 |
| 7235528 | 105 | 106 | 95 | 93 |
| 7235529 | 103 | 105 | 96 | 93 |
| 7235530 | 104 | 106 | 95 | 93 |
| 7235531 | 104 | 105 | 95 | 94 |
| 7235532 | 105 | 107 | 95 | 93 |
| 7235533 | 105 | 104 | 94 | 92 |
| 7235534 | 105 | 103 | 96 | 94 |
| 7235535 | 104 | 109 | 95 | 92 |
| 7235536 | 104 | 105 | 96 | 94 |
| Blank   | 104 | 106 | 95 | 94 |
| LCS     | 103 | 103 | 97 | 95 |
| MS      | 104 | 106 | 96 | 94 |
| MSD     | 103 | 105 | 96 | 95 |

Limits: 77-114                      74-113                      77-110                      78-110

Analysis Name: PAHs in waters by SIM  
Batch number: 13288WAB026

|         | Fluoranthene-d10 | Benzo(a)pyrene-d12 | 1-Methylnaphthalene-d10 |
|---------|------------------|--------------------|-------------------------|
| 7235520 | 97               | 62                 | 101                     |
| 7235521 | 99               | 93                 | 101                     |
| 7235522 | 98               | 91                 | 103                     |
| 7235523 | 83               | 82                 | 90                      |
| 7235524 | 94               | 91                 | 99                      |
| 7235525 | 88               | 88                 | 99                      |
| 7235526 | 93               | 90                 | 100                     |
| 7235527 | 100              | 96                 | 107                     |
| 7235528 | 94               | 78                 | 95                      |
| 7235529 | 96               | 77                 | 101                     |
| 7235530 | 97               | 85                 | 98                      |
| 7235531 | 93               | 51*                | 97                      |
| 7235532 | 91               | 76                 | 100                     |
| 7235533 | 70               | 73                 | 91                      |
| 7235534 | 99               | 85                 | 102                     |
| 7235535 | 93               | 99                 | 98                      |
| 7235536 | 94               | 86                 | 101                     |
| Blank   | 96               | 112                | 100                     |
| LCS     | 101              | 114                | 110                     |
| LCSD    | 98               | 110                | 108                     |

Limits: 44-137                      62-141                      51-136

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

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- (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 # 1426120 Sample # 7235520-36  
Instructions on reverse side correspond with circled numbers.

2 of 3

| 1 Client Information                                 |                 |   |             | 4 Matrix   |  |  |   | 5 Analyses Requested |   |   |   |   |   |  |  |  |   | SCR#: _____ |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|--|-----------------|---|-------------|--|--|--|---|----------------------|---|---|---|---|---|--|--|--|---|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Facility #/SID<br><u>Mayflower Pipeline Incident</u> |                 |   |             | <input type="checkbox"/> Sediment<br><br><input type="checkbox"/> Potable<br><br><input type="checkbox"/> Soil<br><br><input type="checkbox"/> Water<br><br><input type="checkbox"/> Oil | <input type="checkbox"/> Ground<br><br><input type="checkbox"/> NPDES<br><br><input checked="" type="checkbox"/> Surface | <input type="checkbox"/> Air<br><br><input type="checkbox"/> | Preservation Code   |                      |   |   |   |   |   |  |  |  | Preservation Codes  |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Site Address<br><u>Mayflower, AR</u>                 |                 |   |             |  |  |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;">H</td><td style="width: 20px;">P</td><td style="width: 20px;">H</td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td> </tr> <tr> <td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> |                      |   |   |   |   |   |  |  |  | H   | P           | H |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  | H = HCl      T = Thiosulfate<br>N = HNO <sub>3</sub> B = NaOH<br>S = H <sub>2</sub> SO <sub>4</sub> O = Other |  |
| H  | P               | H   |             |  |  |  |   |                      |   |   |   |   |   |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| X  | X               | X   |             |  |  |  |   |                      |   |   |   |   |   |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| ExxonMobil PM<br><u>Satt Bushroe</u>                 |                 | Cost Center/AFE                               |             |  |  |  | Total # of Containers<br><u>VOCS 8260 B</u><br><u>PAH 8270 SIM</u><br><u>RCLA Metals throughness with Ca/Mg</u><br><u>Diss Metals</u><br><u>HEM Oil &amp; Grease</u>  |                      |   |   |   |   |   |  |  |  | 6 Remarks<br><br><u>Lab to filter + pressure diss metals upon receipt</u> |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Consultant/Office<br><u>ARCADIS</u>                  |                 | Consultant Phone #<br><u>919-302-6799</u>     |             |  |  |  |   |                      |   |   |   |   |   |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Consultant PM<br><u>Steve Barrick</u>                |                 | Sampler<br><u>Hans Van Aller / Ryan Lewis</u> |             |  |  |  |   |                      |   |   |   |   |   |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| 2 Sample Identification                              |                 | 3 Collected                                   |             | Grab   | Composite  |  |   |                      |   |   |   |   |   |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Date   | Time            |   |             |  |  |  |   |                      |   |   |   |   |   |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-003 (Surface)</u>                              | <u>10/12/13</u> | <u>10-12-13</u>                               | <u>1300</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-007 (0.5-1.0)</u>                              | <u>10/12/13</u> | <u>10-12-13</u>                               | <u>1320</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-001 (0.5-1.0)</u>                              | <u>10/12/13</u> | <u>10-12-13</u>                               | <u>1330</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-EB-89-10213</u>                                | <u>10/12/13</u> | <u>10-12-13</u>                               | <u>1400</u> | X  |  | X  |   | 7                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>DWP-WS-101-101213</u>                             | <u>10/12/13</u> | <u>10-12-13</u>                               | <u>---</u>  | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-014 (1.5-2.0)</u>                              | <u>10/13/13</u> | <u>10-13-13</u>                               | <u>0810</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-014 (5.5-6.0)</u>                              | <u>10/13/13</u> | <u>10-13-13</u>                               | <u>0820</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-012 (1.5-2.0)</u>                              | <u>10/13/13</u> | <u>10-13-13</u>                               | <u>0830</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-012 (5.0-5.5)</u>                              | <u>10/13/13</u> | <u>10-13-13</u>                               | <u>0840</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-010 (1.5-2.0)</u>                              | <u>10/13/13</u> | <u>10-13-13</u>                               | <u>0850</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-010 (3.5-4.0)</u>                              | <u>10/13/13</u> | <u>10-13-13</u>                               | <u>0900</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <u>WS-006 (0.5-1.0)</u>                              | <u>10/13/13</u> | <u>10-13-13</u>                               | <u>0910</u> | X  |  | X  |   | 9                    | X | X | X | X | X |  |  |  |   |             |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |

|   |                    |                                    |                    |  |                 |                       |                    |                 |             |
|---|--------------------|------------------------------------|--------------------|--|-----------------|-----------------------|--------------------|-----------------|-------------|
| 7 Turnaround Time Requested (TAT) (please circle) |                    | Relinquished by                    |                    | Date   | Time            | Received by           |                    | Date            | Time        |
| Standard  | <u>5 day</u>       | 4 day                              | <u>[Signature]</u> |  | <u>10-13-13</u> | <u>1600</u>           | <u>[Signature]</u> |                 |             |
| 72 hour   | 48 hour            | 24 hour                            | <u>[Signature]</u> |  |                 |                       | <u>[Signature]</u> |                 |             |
| 8 Data Package (circle if required)               |                    | Relinquished by Commercial Carrier |                    | Temperature Upon Receipt                       |                 | Custody Seals Intact? |                    | Date            | Time        |
| Type I - Full                                     | Type VI (Raw Data) | NJ Reduced                         | Other              | <u>UPS</u> <u>FedEx</u> Other <u>Southwest</u> |                 | <u>0.9-2.8°C</u>      |                    | <u>Yes</u> No   |             |
| EDD (circle if required)                          |                    | Locus EIM (default)                |                    | Other  |                 | Received by           |                    | Date            | Time        |
| <u>5 day</u>                                      |                    | <u>Other</u>                       |                    | <u>Other</u>                                   |                 | <u>[Signature]</u>    |                    | <u>10-14-13</u> | <u>1105</u> |

Environmental Sample Administration  
Receipt Documentation Log

1426120

Client/Project: Exxon Mobil

Shipping Container Sealed: YES NO

Date of Receipt: 10-14-13

Custody Seal Present \* : YES NO

Time of Receipt: 1105

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

Source Code: 01

Package: Chilled Not Chilled

| Temperature of Shipping Containers |                |                  |                                       |  |                  |                                |          |
|------------------------------------|----------------|------------------|---------------------------------------|--|------------------|--------------------------------|----------|
| Cooler #                           | Thermometer ID | Temperature (°C) | Temp Bottle (TB) or Surface Temp (ST) | Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP) | Ice Present? Y/N | Loose (L) Bagged Ice (B) or NA | Comments |
| 1                                  | DT121          | 1.1°             | TB                                    | WI   | Y                | B                              |          |
| 2                                  | ↓              | 2.2°             | ↓                                     | ↓  | ↓                | ↓                              |          |
| 3                                  | ↓              | 2.8°             | ↓                                     | ↓  | ↓                | ↓                              |          |
| 4                                  | ↓              | 1.7°             | ↓                                     | ↓  | ↓                | ↓                              |          |
| 5                                  | ↓              | 1.2°             | ↓                                     | ↓  | ↓                | ↓                              |          |
| 6                                  | ↓              | 1.1°             | ↓                                     | ↓  | ↓                | ↓                              |          |

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

Paperwork Discrepancy/Unpacking Problems:

received (1) amber for WS-010(1.5-2.0)101213  
2 (1) amber for WS-010(3.5-4.0)101213 broken

Unpacker Signature/Emp#: *Kimberly* 2123 Date/Time: 10-14-13 1200

Environmental Sample Administration  
Receipt Documentation Log

14 26120

Client/Project: Exxon Mobil

Shipping Container Sealed: YES NO

Date of Receipt: 10-14-13

Custody Seal Present \* : YES NO

Time of Receipt: 1105

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

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers

| Cooler # | Thermometer ID | Temperature (°C) | Temp Bottle (TB) or Surface Temp (ST) | Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP) | Ice Present? Y/N | Loose (L) Bagged Ice (B) or NA | Comments |
|----------|----------------|------------------|---------------------------------------|--|------------------|--------------------------------|----------|
| 7        | DT121          | 1.9°             | TB                                    | WI   | Y                | B                              |          |
| 8        | ↓              | 0.9°             | ↓                                     | ↓  | ↓                | ↓                              |          |
| 9        |                | 2.2°             |                                       |  |                  |                                |          |
| 10       |                | 1.5°             |                                       |  |                  |                                |          |
| 11       |                | 1.4°             |                                       |  |                  |                                |          |
| 12       |                |                  |                                       |  |                  |                                |          |

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

Paperwork Discrepancy/Unpacking Problems:

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Unpacker Signature/Emp#: Kristin Zyl 2123

Date/Time: 10-14-13 1200

# Explanation of Symbols and Abbreviations

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

|                      |                       |                 |                                  |
|----------------------|-----------------------|-----------------|----------------------------------|
| <b>RL</b>            | Reporting Limit       | <b>BMQL</b>     | Below Minimum Quantitation Level |
| <b>N.D.</b>          | none detected         | <b>MPN</b>      | Most Probable Number             |
| <b>TNTC</b>          | Too Numerous To Count | <b>CP Units</b> | cobalt-chloroplatinate units     |
| <b>IU</b>            | International Units   | <b>NTU</b>      | nephelometric turbidity units    |
| <b>umhos/cm</b>      | micromhos/cm          | <b>ng</b>       | nanogram(s)                      |
| <b>C</b>             | degrees Celsius       | <b>F</b>        | degrees Fahrenheit               |
| <b>meq</b>           | milliequivalents      | <b>lb.</b>      | pound(s)                         |
| <b>g</b>             | gram(s)               | <b>kg</b>       | kilogram(s)                      |
| <b>µg</b>            | microgram(s)          | <b>mg</b>       | milligram(s)                     |
| <b>mL</b>            | milliliter(s)         | <b>L</b>        | liter(s)                         |
| <b>m<sup>3</sup></b> | cubic meter(s)        | <b>µL</b>       | microliter(s)                    |
|                      |                       | <b>pg/L</b>     | 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**

**Inorganic Qualifiers**

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