

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

June 03, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/01/2013
Group Number: 1394023
SDG: PEH93
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

| <u>Client Sample Description</u> | <u>Lancaster Labs (LLI) #</u> |
|---|-------------------------------|
| WS-004(0.5-1.0)053113 Grab Surface Water | 7077915 |
| WS-004(0.5-1.0)053113 Filtered Grab Surface Water | 7077916 |
| WS-007(0.5-1.0)053113 Grab Surface Water | 7077917 |
| WS-007(0.5-1.0)053113 Filtered Grab Surface Water | 7077918 |
| WS-TB-61-053113 Water | 7077919 |
| WS-FB-35-053113 Filtered Grab Water | 7077920 |

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

| | | |
|--------------------|------------|--------------------------|
| ELECTRONIC COPY TO | ARCADIS | Attn: Stephen Barrick |
| ELECTRONIC COPY TO | ARCADIS | Attn: Lyndi Mott |
| ELECTRONIC COPY TO | ExxonMobil | Attn: Michael J. Firth |
| ELECTRONIC COPY TO | ARCADIS | Attn: Emily Leamer |
| ELECTRONIC COPY TO | ARCADIS | Attn: Rhiannon Parmalee |
| ELECTRONIC COPY TO | ARCADIS | Attn: Jamie Pritchard |
| ELECTRONIC COPY TO | ExxonMobil | Attn: Michael L Sixsmith |
| ELECTRONIC COPY TO | ExxonMobil | Attn: Julie Foster |
| ELECTRONIC COPY TO | ExxonMobil | Attn: Carl Wideman |

COPY TO

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1394023

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 8270C SIM, GC/MS Semivolatiles**

Batch #: 13152WAE026 (Sample number(s): 7077915-7077918, 7077920 UNSPK: P77925)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7077915, 7077918, MSD

Sample #s: 7077915, 7077918

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.

SW-846 6010B, Metals

Batch #: 131521848002 (Sample number(s): 7077915-7077918, 7077920 UNSPK: 7077917 BKG: 7077917)

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

SW-846 6010B, Metals Dissolved

Batch #: 131521848002 (Sample number(s): 7077915-7077918, 7077920 UNSPK: 7077917 BKG: 7077917)

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

Sample Description: WS-004(0.5-1.0)053113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077915
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:20 by TM

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

04510 SDG#: PEH93-01

| 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 | 4.0 J | 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-004(0.5-1.0)053113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077915
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:20 by TM ExxonMobil
Submitted: 06/01/2013 09:30 Mobil Pipeline Company
Reported: 06/03/2013 14:33 PO Box 4416
Houston TX 77210-4416

04510 SDG#: PEH93-01

| 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 | 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 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 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 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.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------------------|-------------|-------------|-------------|-------------|---|
| 06256 | Total Hardness as CaCO ₃ | 471-34-1 | 21.1 | 0.064 | 0.20 | 1 |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 07035 | Arsenic | 7440-38-2 | 0.0116 J | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.107 | 0.00033 | 0.0050 | 1 |

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

Sample Description: WS-004(0.5-1.0)053113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077915
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:20 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/01/2013 09:30 PO Box 4416
Reported: 06/03/2013 14:33 Houston TX 77210-4416

04510 SDG#: PEH93-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | | SW-846 6010B | mg/l | mg/l | mg/l | |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| 01750 | Calcium | 7440-70-2 | 4.15 | 0.0640 | 0.200 | 1 |
| 07051 | Chromium | 7440-47-3 | 0.0136 J | 0.0011 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | 0.0141 J | 0.0051 | 0.0150 | 1 |
| 01757 | Magnesium | 7439-95-4 | 2.61 | 0.0606 | 0.100 | 1 |
| 07061 | Nickel | 7440-02-0 | 0.0116 | 0.0011 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | 0.0089 J | 0.0075 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | N.D. | 0.0012 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | 0.0205 | 0.0013 | 0.0050 | 1 |
| | | SW-846 7470A | mg/l | mg/l | mg/l | |
| 00259 | Mercury | 7439-97-6 | N.D. | 0.000070 | 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 | C131541AA | 06/03/2013 10:30 | Kerri E Legerlotz | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | C131541AA | 06/03/2013 10:30 | Kerri E Legerlotz | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 131521848002 | 06/03/2013 04:49 | Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 131521848002 | 06/02/2013 14:00 | Elaine F Stoltzfus | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 131546256001 | 06/03/2013 04:33 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:46 | Tara L Snyder | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 131525713001 | 06/01/2013 14:15 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 131521848002 | 06/01/2013 11:11 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 131525713001 | 06/01/2013 11:55 | Damary Valentin | 1 |

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

Sample Description: WS-004(0.5-1.0)053113 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077916
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:20 by TM

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

F4510 SDG#: PEH93-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|------------------------|-------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| 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 | 0.012 J | 0.010 | 0.051 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | 0.026 J | 0.010 | 0.051 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.030 | 0.051 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.030 | 0.051 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.051 | 1 |
| Metals Dissolved | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0253 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 0.0011 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 0.0051 | 0.0150 | 1 |
| 07061 | Nickel | 7440-02-0 | 0.0027 J | 0.0011 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | N.D. | 0.0075 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | N.D. | 0.0012 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | 0.0017 J | 0.0013 | 0.0050 | 1 |
| | SW-846 7470A | | mg/l | mg/l | mg/l | |
| 00259 | Mercury | 7439-97-6 | N.D. | 0.000070 | 0.00020 | 1 |

General Sample Comments

This sample was field filtered for dissolved PAHs and metals.

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

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|------------------|--------|-------------|------------------------|--------------------|-----------------|
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13152WAE026 | 06/03/2013 05:17 | Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13152WAE026 | 06/02/2013 14:00 | Elaine F Stoltzfus | 1 |

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

Sample Description: WS-004(0.5-1.0)053113 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077916
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/01/2013 09:30

PO Box 4416

Reported: 06/03/2013 14:33

Houston TX 77210-4416

F4510 SDG#: PEH93-02

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | | Analyst | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|-------|-----------------|-----------------|
| | | | | | | | | |
| 07035 | Arsenic | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 18:50 | Tara L Snyder | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 131525713001 | 06/01/2013 | 14:17 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 131521848002 | 06/01/2013 | 11:11 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 131525713001 | 06/01/2013 | 11:55 | Damary Valentin | 1 |

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

Sample Description: WS-007(0.5-1.0)053113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077917
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:50 by TM

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

07510 SDG#: PEH93-03

| 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 | 5.0 J | 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)053113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077917
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:50 by TM

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

07510 SDG#: PEH93-03

| 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 | |
| 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 | 0.1 J | 0.1 | 0.5 | 1 |
| 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 | 0.025 J | 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 | 0.016 J | 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 | 0.022 J | 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 | 0.062 | 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 | 0.13 | 0.010 | 0.051 | 1 |
| Metals SM 2340 B-1997 | | | | | | |
| | | | mg/l | mg/l | mg/l | |
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 12.2 | 0.064 | 0.20 | 1 |
| SW-846 6010B | | | | | | |
| | | | mg/l | mg/l | mg/l | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0701 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| 01750 | Calcium | 7440-70-2 | 2.22 | 0.0640 | 0.200 | 1 |

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

Sample Description: WS-007(0.5-1.0)053113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077917
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:50 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/01/2013 09:30 PO Box 4416
Reported: 06/03/2013 14:33 Houston TX 77210-4416

07510 SDG#: PEH93-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | | SW-846 6010B | mg/l | mg/l | mg/l | |
| 07051 | Chromium | 7440-47-3 | 0.0087 J | 0.0011 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | 0.0094 J | 0.0051 | 0.0150 | 1 |
| 01757 | Magnesium | 7439-95-4 | 1.60 | 0.0606 | 0.100 | 1 |
| 07061 | Nickel | 7440-02-0 | 0.0075 J | 0.0011 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | N.D. | 0.0075 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | N.D. | 0.0012 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | 0.0140 | 0.0013 | 0.0050 | 1 |
| | | SW-846 7470A | mg/l | mg/l | mg/l | |
| 00259 | Mercury | 7439-97-6 | N.D. | 0.000070 | 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 | C131541AA | 06/03/2013 10:52 | Kerri E Legerlotz | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | C131541AA | 06/03/2013 10:52 | Kerri E Legerlotz | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13152WAE026 | 06/03/2013 05:44 | Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13152WAE026 | 06/02/2013 14:00 | Elaine F Stoltzfus | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 131546256001 | 06/03/2013 04:33 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 18:26 | Tara L Snyder | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 131525713001 | 06/01/2013 14:19 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 131521848002 | 06/01/2013 11:11 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 131525713001 | 06/01/2013 11:55 | Damary Valentin | 1 |

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

Sample Description: WS-007(0.5-1.0)053113 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077918
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:50 by TM

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

F7510 SDG#: PEH93-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|------------------------|-------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| 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 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.

| Metals Dissolved | SW-846 6010B | mg/l | mg/l | mg/l | | |
|-------------------------|---------------------|-------------|-------------|-------------|---------|---|
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0151 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 0.0011 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 0.0051 | 0.0150 | 1 |
| 07061 | Nickel | 7440-02-0 | 0.0022 J | 0.0011 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | N.D. | 0.0075 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | N.D. | 0.0012 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | 0.0014 J | 0.0013 | 0.0050 | 1 |
| | SW-846 7470A | mg/l | mg/l | mg/l | | |
| 00259 | Mercury | 7439-97-6 | N.D. | 0.000070 | 0.00020 | 1 |

General Sample Comments

This sample was field filtered for dissolved PAHs and metals.

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

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|------------------|--------|-------------|------------------------|----------------|-----------------|
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13152WAE026 | 06/03/2013 06:11 | Brian K Graham | 1 |

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

Sample Description: WS-007(0.5-1.0)053113 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077918
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 12:50 by TM

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

F7510 SDG#: PEH93-04

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|--------------------|-----------------|
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13152WAE026 | 06/02/2013 14:00 | Elaine F Stoltzfus | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 19:00 | Tara L Snyder | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 131525713001 | 06/01/2013 14:21 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 131521848002 | 06/01/2013 11:11 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 131525713001 | 06/01/2013 11:55 | Damary Valentin | 1 |

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

Sample Description: **WS-TB-61-053113 Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7077919**
 LLI Group # **1394023**
 Account # **14739**

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

Collected: 05/31/2013

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

TB61- SDG#: PEH93-05TB

| 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-TB-61-053113 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077919
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

TB61- SDG#: PEH93-05TB

| 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 | 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 |

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 | C131541AA | 06/03/2013 11:15 | Kerri E Legerlotz | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | C131541AA | 06/03/2013 11:15 | Kerri E Legerlotz | 1 |

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

Sample Description: **WS-FB-35-053113 Filtered Grab Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7077920**
 LLI Group # **1394023**
 Account # **14739**

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

Collected: 05/31/2013 13:30 by **TM** ExxonMobil
 Submitted: 06/01/2013 09:30 Mobil Pipeline Company
 Reported: 06/03/2013 14:33 PO Box 4416
 Houston TX 77210-4416

FB35- SDG#: PEH93-06FB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|------------------------|-------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| 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 | N.D. | 0.030 | 0.051 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.030 | 0.051 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.051 | 1 |
| Metals Dissolved | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0011 J | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 0.0011 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 0.0051 | 0.0150 | 1 |
| 07061 | Nickel | 7440-02-0 | 0.0011 J | 0.0011 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | N.D. | 0.0075 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | N.D. | 0.0012 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | N.D. | 0.0013 | 0.0050 | 1 |
| | SW-846 7470A | | mg/l | mg/l | mg/l | |
| 00259 | Mercury | 7439-97-6 | N.D. | 0.000070 | 0.00020 | 1 |

General Sample Comments

This sample was field filtered for dissolved PAHs and metals.

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

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|------------------|--------|-------------|------------------------|--------------------|-----------------|
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13152WAE026 | 06/03/2013 06:38 | Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13152WAE026 | 06/02/2013 14:00 | Elaine F Stoltzfus | 1 |

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

Sample Description: WS-FB-35-053113 Filtered Grab Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7077920
LLI Group # 1394023
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/31/2013 13:30 by TM

ExxonMobil

Submitted: 06/01/2013 09:30

Mobil Pipeline Company

Reported: 06/03/2013 14:33

PO Box 4416

Houston TX 77210-4416

FB35- SDG#: PEH93-06FB*

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | | Analyst | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|-------|-----------------|-----------------|
| | | | | | | | | |
| 07035 | Arsenic | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07046 | Barium | SW-846 6010B | 2 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07049 | Cadmium | SW-846 6010B | 2 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07051 | Chromium | SW-846 6010B | 2 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07066 | Silver | SW-846 6010B | 2 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 07071 | Vanadium | SW-846 6010B | 2 | 131521848002 | 06/02/2013 | 21:58 | Tara L Snyder | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 131525713001 | 06/01/2013 | 14:29 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 131521848002 | 06/01/2013 | 11:11 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 131525713001 | 06/01/2013 | 11:55 | Damary Valentin | 1 |

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 06/03/13 at 02:33 PM

Group Number: 1394023

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: C131541AA | Sample number(s): 7077915,7077917,7077919 | | | | | | | | |
| Acetone | N.D. | 3.0 | 5.0 | ug/l | 110 | | 73-135 | | |
| Allyl Chloride | N.D. | 0.1 | 0.5 | ug/l | 92 | | 61-130 | | |
| Benzene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 80-120 | | |
| Bromobenzene | N.D. | 0.1 | 0.5 | ug/l | 101 | | 80-120 | | |
| Bromochloromethane | N.D. | 0.1 | 0.5 | ug/l | 108 | | 80-125 | | |
| Bromodichloromethane | N.D. | 0.1 | 0.5 | ug/l | 105 | | 80-120 | | |
| Bromoform | N.D. | 0.1 | 0.5 | ug/l | 120 | | 63-132 | | |
| Bromomethane | N.D. | 0.1 | 0.5 | ug/l | 94 | | 38-146 | | |
| 2-Butanone | N.D. | 1.0 | 5.0 | ug/l | 101 | | 70-130 | | |
| n-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 99 | | 80-120 | | |
| sec-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 101 | | 80-120 | | |
| tert-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 103 | | 80-120 | | |
| Carbon Tetrachloride | N.D. | 0.1 | 0.5 | ug/l | 113 | | 74-133 | | |
| Chlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 109 | | 80-120 | | |
| Chloroethane | N.D. | 0.1 | 0.5 | ug/l | 91 | | 67-124 | | |
| Chloroform | N.D. | 0.1 | 0.5 | ug/l | 105 | | 80-120 | | |
| Chloromethane | N.D. | 0.2 | 0.5 | ug/l | 79 | | 55-135 | | |
| 2-Chlorotoluene | N.D. | 0.1 | 0.5 | ug/l | 102 | | 80-120 | | |
| 4-Chlorotoluene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 80-120 | | |
| 1,2-Dibromo-3-chloropropane | N.D. | 0.2 | 0.5 | ug/l | 114 | | 57-141 | | |
| Dibromochloromethane | N.D. | 0.1 | 0.5 | ug/l | 114 | | 80-126 | | |
| 1,2-Dibromoethane | N.D. | 0.1 | 0.5 | ug/l | 104 | | 80-120 | | |
| Dibromomethane | N.D. | 0.1 | 0.5 | ug/l | 105 | | 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 | 102 | | 80-112 | | |
| Dichlorodifluoromethane | N.D. | 0.1 | 0.5 | ug/l | 67 | | 39-120 | | |
| 1,1-Dichloroethane | N.D. | 0.1 | 0.5 | ug/l | 103 | | 80-120 | | |
| 1,2-Dichloroethane | N.D. | 0.1 | 0.5 | ug/l | 104 | | 80-127 | | |
| 1,1-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 112 | | 80-123 | | |
| cis-1,2-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 105 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 107 | | 80-120 | | |
| Dichlorofluoromethane | N.D. | 0.2 | 0.5 | ug/l | 116 | | 63-149 | | |
| 1,2-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 105 | | 80-120 | | |
| 1,3-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 102 | | 80-120 | | |
| 2,2-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 107 | | 75-122 | | |
| 1,1-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 105 | | 80-121 | | |
| cis-1,3-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 102 | | 74-120 | | |
| trans-1,3-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 98 | | 73-126 | | |
| Ethyl ether | N.D. | 0.1 | 0.5 | ug/l | 89 | | 59-130 | | |
| Ethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 80-120 | | |
| Freon 113 | N.D. | 0.2 | 0.5 | ug/l | 114 | | 78-132 | | |
| Hexachlorobutadiene | N.D. | 0.1 | 0.5 | ug/l | 100 | | 61-125 | | |

*- 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

Group Number: 1394023

Reported: 06/03/13 at 02:33 PM

| <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/LCSD %REC</u> | <u>LCS/LCSD Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|-----------------------------|---------------------|--------------------|------------------|---------------------|-----------------|----------------------|------------------------|------------|----------------|
| Isopropylbenzene | N.D. | 0.1 | 0.5 | ug/l | 103 | | 80-120 | | |
| p-Isopropyltoluene | N.D. | 0.1 | 0.5 | ug/l | 101 | | 80-120 | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.1 | 0.5 | ug/l | 94 | | 80-125 | | |
| 4-Methyl-2-Pentanone | N.D. | 1.0 | 5.0 | ug/l | 94 | | 69-135 | | |
| Methylene Chloride | N.D. | 0.2 | 0.5 | ug/l | 107 | | 80-120 | | |
| n-Propylbenzene | N.D. | 0.1 | 0.5 | ug/l | 99 | | 80-120 | | |
| Styrene | N.D. | 0.1 | 0.5 | ug/l | 107 | | 80-120 | | |
| 1,1,1,2-Tetrachloroethane | N.D. | 0.1 | 0.5 | ug/l | 109 | | 80-120 | | |
| 1,1,2,2-Tetrachloroethane | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-125 | | |
| Tetrachloroethene | N.D. | 0.1 | 0.5 | ug/l | 111 | | 80-120 | | |
| Tetrahydrofuran | N.D. | 2.0 | 5.0 | ug/l | 106 | | 65-131 | | |
| Toluene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 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 | 91 | | 70-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.1 | 0.5 | ug/l | 107 | | 79-127 | | |
| 1,1,2-Trichloroethane | N.D. | 0.1 | 0.5 | ug/l | 106 | | 80-120 | | |
| Trichloroethene | N.D. | 0.1 | 0.5 | ug/l | 106 | | 80-120 | | |
| Trichlorofluoromethane | N.D. | 0.1 | 0.5 | ug/l | 96 | | 77-132 | | |
| 1,2,3-Trichloropropane | N.D. | 0.3 | 1.0 | ug/l | 100 | | 80-120 | | |
| 1,2,4-Trimethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 100 | | 80-120 | | |
| 1,3,5-Trimethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 101 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.1 | 0.5 | ug/l | 85 | | 65-127 | | |
| Xylene (Total) | N.D. | 0.1 | 0.5 | ug/l | 105 | | 80-120 | | |

Batch number: 13152WAE026

Sample number(s): 7077915-7077918,7077920

| | | | | | | | | | |
|------------------------|------|--------|-------|------|-----|--|--------|--|--|
| Acenaphthene | N.D. | 0.0025 | 0.013 | ug/l | 103 | | 65-124 | | |
| Acenaphthylene | N.D. | 0.0025 | 0.013 | ug/l | 110 | | 72-113 | | |
| Anthracene | N.D. | 0.0025 | 0.013 | ug/l | 108 | | 70-117 | | |
| Benzo(a)anthracene | N.D. | 0.0025 | 0.013 | ug/l | 111 | | 75-115 | | |
| Benzo(a)pyrene | N.D. | 0.0025 | 0.013 | ug/l | 101 | | 72-120 | | |
| Benzo(b)fluoranthene | N.D. | 0.0025 | 0.013 | ug/l | 113 | | 74-130 | | |
| Benzo(g,h,i)perylene | N.D. | 0.0025 | 0.013 | ug/l | 98 | | 63-121 | | |
| Benzo(k)fluoranthene | N.D. | 0.0025 | 0.013 | ug/l | 108 | | 74-118 | | |
| Chrysene | N.D. | 0.0025 | 0.013 | ug/l | 106 | | 75-112 | | |
| Dibenz(a,h)anthracene | N.D. | 0.0025 | 0.013 | ug/l | 98 | | 66-122 | | |
| Fluoranthene | N.D. | 0.0025 | 0.013 | ug/l | 105 | | 73-116 | | |
| Fluorene | N.D. | 0.0025 | 0.013 | ug/l | 105 | | 74-115 | | |
| Indeno(1,2,3-cd)pyrene | N.D. | 0.0025 | 0.013 | ug/l | 105 | | 66-122 | | |
| 1-Methylnaphthalene | N.D. | 0.0025 | 0.013 | ug/l | 113 | | 72-114 | | |
| 2-Methylnaphthalene | N.D. | 0.0025 | 0.013 | ug/l | 114 | | 74-119 | | |
| Naphthalene | N.D. | 0.0075 | 0.013 | ug/l | 102 | | 67-118 | | |
| Phenanthrene | N.D. | 0.0075 | 0.013 | ug/l | 100 | | 72-109 | | |
| Pyrene | N.D. | 0.0025 | 0.013 | ug/l | 107 | | 71-116 | | |

Batch number: 131521848002

Sample number(s): 7077915-7077918,7077920

| | | | | | | | | | |
|-----------|------|---------|--------|------|-----|--|--------|--|--|
| Arsenic | N.D. | 0.0068 | 0.0200 | mg/l | 102 | | 90-113 | | |
| Barium | N.D. | 0.00033 | 0.0050 | mg/l | 104 | | 90-110 | | |
| Cadmium | N.D. | 0.00036 | 0.0050 | mg/l | 103 | | 90-112 | | |
| Calcium | N.D. | 0.0640 | 0.200 | mg/l | 101 | | 90-110 | | |
| Chromium | N.D. | 0.0011 | 0.0150 | mg/l | 103 | | 90-110 | | |
| Lead | N.D. | 0.0051 | 0.0150 | mg/l | 105 | | 88-110 | | |
| Magnesium | N.D. | 0.0606 | 0.100 | mg/l | 98 | | 90-110 | | |
| Nickel | N.D. | 0.0011 | 0.0100 | mg/l | 105 | | 90-111 | | |
| Selenium | N.D. | 0.0075 | 0.0200 | mg/l | 99 | | 80-120 | | |
| Silver | N.D. | 0.0012 | 0.0050 | mg/l | 116 | | 80-120 | | |
| Vanadium | N.D. | 0.0013 | 0.0050 | mg/l | 103 | | 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

Group Number: 1394023

Reported: 06/03/13 at 02:33 PM

| <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: 131525713001 | Sample number(s): 7077915-7077918,7077920 | | | | | | | | |
| Mercury | N.D. | 0.00007 | 0.00020 | mg/l | 90 | | 80-120 | | |
| | | 0 | | | | | | | |

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

| <u>Analysis Name</u> | <u>MS %REC</u> | <u>MSD %REC</u> | <u>MS/MSD Limits</u> | <u>RPD</u> | <u>RPD MAX</u> | <u>BKG Conc</u> | <u>DUP Conc</u> | <u>DUP RPD</u> | <u>Dup RPD Max</u> |
|-----------------------------|--|-----------------|----------------------|------------|----------------|-----------------|-----------------|----------------|--------------------|
| Batch number: C131541AA | Sample number(s): 7077915,7077917,7077919 UNSPK: 7077915 | | | | | | | | |
| Acetone | 96 | 99 | 57-163 | 3 | 30 | | | | |
| Allyl Chloride | 84 | 91 | 67-139 | 8 | 30 | | | | |
| Benzene | 93 | 96 | 87-126 | 4 | 30 | | | | |
| Bromobenzene | 94 | 99 | 80-123 | 6 | 30 | | | | |
| Bromochloromethane | 97 | 100 | 82-125 | 3 | 30 | | | | |
| Bromodichloromethane | 94 | 97 | 82-133 | 3 | 30 | | | | |
| Bromoform | 111 | 114 | 60-138 | 3 | 30 | | | | |
| Bromomethane | 93 | 99 | 41-145 | 7 | 30 | | | | |
| 2-Butanone | 84 | 86 | 63-146 | 1 | 30 | | | | |
| n-Butylbenzene | 93 | 98 | 83-131 | 5 | 30 | | | | |
| sec-Butylbenzene | 94 | 100 | 84-128 | 6 | 30 | | | | |
| tert-Butylbenzene | 97 | 103 | 84-135 | 6 | 30 | | | | |
| Carbon Tetrachloride | 101 | 105 | 81-148 | 3 | 30 | | | | |
| Chlorobenzene | 99 | 104 | 78-133 | 5 | 30 | | | | |
| Chloroethane | 91 | 98 | 70-139 | 8 | 30 | | | | |
| Chloroform | 94 | 98 | 86-136 | 4 | 30 | | | | |
| Chloromethane | 78 | 85 | 55-152 | 9 | 30 | | | | |
| 2-Chlorotoluene | 94 | 101 | 81-120 | 7 | 30 | | | | |
| 4-Chlorotoluene | 97 | 103 | 82-119 | 6 | 30 | | | | |
| 1,2-Dibromo-3-chloropropane | 93 | 97 | 43-143 | 3 | 30 | | | | |
| Dibromochloromethane | 104 | 107 | 79-125 | 3 | 30 | | | | |
| 1,2-Dibromoethane | 94 | 96 | 84-127 | 3 | 30 | | | | |
| Dibromomethane | 94 | 96 | 83-126 | 2 | 30 | | | | |
| 1,2-Dichlorobenzene | 96 | 102 | 83-117 | 6 | 30 | | | | |
| 1,3-Dichlorobenzene | 96 | 103 | 81-118 | 6 | 30 | | | | |
| 1,4-Dichlorobenzene | 96 | 102 | 79-120 | 6 | 30 | | | | |
| Dichlorodifluoromethane | 65 | 66 | 28-136 | 2 | 30 | | | | |
| 1,1-Dichloroethane | 92 | 96 | 88-136 | 5 | 30 | | | | |
| 1,2-Dichloroethane | 91 | 96 | 82-135 | 4 | 30 | | | | |
| 1,1-Dichloroethene | 102 | 107 | 83-150 | 4 | 30 | | | | |
| cis-1,2-Dichloroethene | 94 | 97 | 82-129 | 3 | 30 | | | | |
| trans-1,2-Dichloroethene | 97 | 100 | 88-127 | 3 | 30 | | | | |
| Dichlorofluoromethane | 115 | 123 | 59-176 | 7 | 30 | | | | |
| 1,2-Dichloropropane | 94 | 100 | 91-126 | 6 | 30 | | | | |
| 1,3-Dichloropropane | 93 | 96 | 80-127 | 3 | 30 | | | | |
| 2,2-Dichloropropane | 95 | 99 | 80-134 | 4 | 30 | | | | |
| 1,1-Dichloropropene | 95 | 99 | 86-139 | 3 | 30 | | | | |
| cis-1,3-Dichloropropene | 90 | 95 | 74-132 | 6 | 30 | | | | |
| trans-1,3-Dichloropropene | 89 | 93 | 71-128 | 4 | 30 | | | | |
| Ethyl ether | 86 | 86 | 67-127 | 0 | 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
Reported: 06/03/13 at 02:33 PM

Group Number: 1394023

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> |
|-----------------------------|----------------|-----------------|----------------------|------------|----------------|-----------------|-----------------|----------------|--------------------|
| Ethylbenzene | 95 | 99 | 80-140 | 4 | 30 | | | | |
| Freon 113 | 103 | 103 | 87-158 | 0 | 30 | | | | |
| Hexachlorobutadiene | 91 | 96 | 65-128 | 6 | 30 | | | | |
| Isopropylbenzene | 96 | 101 | 81-133 | 5 | 30 | | | | |
| p-Isopropyltoluene | 95 | 101 | 84-124 | 6 | 30 | | | | |
| Methyl Tertiary Butyl Ether | 84 | 88 | 82-132 | 4 | 30 | | | | |
| 4-Methyl-2-Pentanone | 92 | 96 | 69-149 | 4 | 30 | | | | |
| Methylene Chloride | 95 | 97 | 84-122 | 3 | 30 | | | | |
| n-Propylbenzene | 92 | 98 | 79-131 | 6 | 30 | | | | |
| Styrene | 98 | 103 | 63-151 | 5 | 30 | | | | |
| 1,1,1,2-Tetrachloroethane | 98 | 105 | 87-126 | 7 | 30 | | | | |
| 1,1,2,2-Tetrachloroethane | 93 | 98 | 75-131 | 5 | 30 | | | | |
| Tetrachloroethene | 100 | 103 | 75-129 | 3 | 30 | | | | |
| Tetrahydrofuran | 85 | 81 | 56-154 | 5 | 30 | | | | |
| Toluene | 95 | 100 | 83-127 | 5 | 30 | | | | |
| 1,2,3-Trichlorobenzene | 87 | 92 | 73-125 | 5 | 30 | | | | |
| 1,2,4-Trichlorobenzene | 87 | 92 | 77-120 | 6 | 30 | | | | |
| 1,1,1-Trichloroethane | 96 | 101 | 85-140 | 5 | 30 | | | | |
| 1,1,2-Trichloroethane | 98 | 101 | 85-129 | 3 | 30 | | | | |
| Trichloroethene | 96 | 100 | 85-131 | 4 | 30 | | | | |
| Trichlorofluoromethane | 95 | 99 | 67-161 | 4 | 30 | | | | |
| 1,2,3-Trichloropropane | 96 | 100 | 76-120 | 4 | 30 | | | | |
| 1,2,4-Trimethylbenzene | 94 | 99 | 87-126 | 6 | 30 | | | | |
| 1,3,5-Trimethylbenzene | 93 | 100 | 89-129 | 7 | 30 | | | | |
| Vinyl Chloride | 86 | 92 | 65-151 | 6 | 30 | | | | |
| Xylene (Total) | 97 | 101 | 81-137 | 5 | 30 | | | | |

Batch number: 13152WAE026

Sample number(s): 7077915-7077918,7077920 UNSPK: P077925

| | | | | | | | | | |
|------------------------|-----|-----|--------|-----|----|--|--|--|--|
| Acenaphthene | 102 | 90 | 59-127 | 12 | 30 | | | | |
| Acenaphthylene | 111 | 98 | 33-146 | 11 | 30 | | | | |
| Anthracene | 103 | 87 | 69-119 | 17 | 30 | | | | |
| Benzo(a)anthracene | 115 | 78 | 67-124 | 38* | 30 | | | | |
| Benzo(a)pyrene | 84 | 43* | 64-123 | 63* | 30 | | | | |
| Benzo(b)fluoranthene | 97 | 50* | 61-133 | 63* | 30 | | | | |
| Benzo(g,h,i)perylene | 79 | 38 | 36-138 | 70* | 30 | | | | |
| Benzo(k)fluoranthene | 86 | 44* | 59-128 | 63* | 30 | | | | |
| Chrysene | 91 | 58* | 62-118 | 44* | 30 | | | | |
| Dibenz(a,h)anthracene | 79 | 37 | 32-141 | 73* | 30 | | | | |
| Fluoranthene | 102 | 80 | 65-123 | 24 | 30 | | | | |
| Fluorene | 106 | 92 | 69-124 | 14 | 30 | | | | |
| Indeno(1,2,3-cd)pyrene | 81 | 39 | 29-143 | 69* | 30 | | | | |
| 1-Methylnaphthalene | 113 | 101 | 67-117 | 11 | 30 | | | | |
| 2-Methylnaphthalene | 115 | 102 | 71-126 | 12 | 30 | | | | |
| Naphthalene | 107 | 97 | 58-131 | 10 | 30 | | | | |
| Phenanthrene | 100 | 84 | 67-117 | 17 | 30 | | | | |
| Pyrene | 115 | 89 | 59-125 | 25 | 30 | | | | |

Batch number: 131521848002

Sample number(s): 7077915-7077918,7077920 UNSPK: 7077917 BKG: 7077917

| | | | | | | | | | |
|---------|-----|-----|--------|---|----|--------|----------|----------|----|
| Arsenic | 106 | 106 | 81-123 | 0 | 20 | N.D. | 0.0075 J | 200* (1) | 20 |
| Barium | 105 | 105 | 78-118 | 0 | 20 | 0.0701 | 0.0717 | 2 | 20 |
| Cadmium | 103 | 103 | 83-116 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Calcium | 102 | 103 | 81-118 | 0 | 20 | 2.22 | 2.24 | 1 | 20 |

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 06/03/13 at 02:33 PM

Group Number: 1394023

Sample Matrix Quality Control

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

| <u>Analysis Name</u> | <u>MS</u> <u>%REC</u> | <u>MSD</u> <u>%REC</u> | <u>MS/MSD</u> <u>Limits</u> | <u>RPD</u> <u>RPD</u> | <u>RPD</u> <u>MAX</u> | <u>BKG</u> <u>Conc</u> | <u>DUP</u> <u>Conc</u> | <u>DUP</u> <u>RPD</u> | <u>Dup</u> <u>RPD</u> <u>Max</u> |
|----------------------|--------------------------|---------------------------|--------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|-------------------------------------|
| Chromium | 106 | 106 | 81-120 | 0 | 20 | 0.0087 J | 0.0096 J | 10 (1) | 20 |
| Lead | 103 | 103 | 75-125 | 0 | 20 | 0.0094 J | 0.0101 J | 6 (1) | 20 |
| Magnesium | 118 | 119 | 75-125 | 1 | 20 | 1.60 | 1.67 | 4 | 20 |
| Nickel | 106 | 106 | 86-115 | 0 | 20 | 0.0075 J | 0.0078 J | 4 (1) | 20 |
| Selenium | 103 | 99 | 75-125 | 4 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Silver | 117 | 118 | 75-125 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Vanadium | 106 | 106 | 90-111 | 0 | 20 | 0.0140 | 0.0141 | 0 (1) | 20 |

Batch number: 131525713001

Sample number(s): 7077915-7077918,7077920 UNSPK: 7077918 BKG: 7077918

Mercury 99 98 80-120 1 20 N.D. N.D. 0 (1) 20

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: NHDES VOCs 25ml purge

Batch number: C131541AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 7077915 | 105 | 103 | 100 | 95 |
| 7077917 | 105 | 104 | 100 | 97 |
| 7077919 | 107 | 105 | 100 | 95 |
| Blank | 106 | 103 | 100 | 95 |
| LCS | 103 | 102 | 102 | 99 |
| MS | 103 | 102 | 102 | 99 |
| MSD | 103 | 102 | 102 | 99 |

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

Analysis Name: PAHs in waters by SIM

Batch number: 13152WAE026

| | Fluoranthene-d10 | Benzo(a)pyrene-d12 | 1-Methylnaphthalene-d10 |
|---------|------------------|--------------------|-------------------------|
| 7077915 | 60* | 34* | 83 |
| 7077916 | 83 | 73 | 97 |
| 7077917 | 79 | 70 | 91 |
| 7077918 | 81 | 49* | 94 |
| 7077920 | 99 | 99 | 100 |
| Blank | 91 | 107 | 93 |
| LCS | 99 | 111 | 108 |
| MS | 99 | 98 | 107 |
| MSD | 75 | 44* | 94 |

Limits: 64-120 62-141 58-134

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 06/03/13 at 02:33 PM

Group Number: 1394023

*- 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.

**Environmental Sample Administration
Receipt Documentation Log**

Client/Project: Exxon Mobil

Shipping Container Sealed: YES NO

Date of Receipt: 6/1/13

Custody Seal Present * : YES NO

Time of Receipt: 0930

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

Source Code: 50

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 | DT131 | 2.0 | TB | WI | Y | B | S-5 SW |
| 2 | ↓ | 1.5 | ↓ | ↓ | ↓ | ↓ | S-5 SW |
| 3 | ↓ | 0.3 | ↓ | ↓ | ↓ | ↓ | Res. Soil |
| 4 | ↓ | 2.2 | ↓ | ↓ | ↓ | ↓ | FT |
| 5 | ↓ | 2.0 | ↓ | ↓ | ↓ | ↓ | VIS + FT |
| 6 | ↓ | 0.4 | ↓ | ↓ | ↓ | ↓ | S-5 SW |

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 964 Date/Time: 6/1/13 1035

Issued by Dept. 6042 Management

2174.06

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil
 Date of Receipt: 6/1/13
 Time of Receipt: 0930
 Source Code: 50

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO
 * Custody seal was intact unless otherwise noted in the discrepancy section
 Package: Chilled Not Chilled

| Temperature of Shipping Containers | | | | | | | |
|------------------------------------|----------------|------------------|---------------------------------------|--|------------------|--------------------------------|----------|
| Cooler # | Thermometer ID | Temperature (°C) | Temp Bottle (TB) or Surface Temp (ST) | Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP) | Ice Present? Y/N | Loose (L) Bagged Ice (B) or NA | Comments |
| 1 | DT131 | 0.8 | TB | WI | Y | B | Res Soil |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: *[Signature]* 964 Date/Time: 6/1/13 1035

Explanation of Symbols and Abbreviations

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

| | | | |
|-------------------------|--|-----------------|----------------------------------|
| RL | Reporting Limit | BMQL | Below Minimum Quantitation Level |
| N.D. | none detected | MPN | Most Probable Number |
| TNTC | Too Numerous To Count | CP Units | cobalt-chloroplatinate units |
| IU | International Units | NTU | nephelometric turbidity units |
| umhos/cm | micromhos/cm | ng | nanogram(s) |
| C | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| µg | microgram(s) | mg | milligram(s) |
| mL | milliliter(s) | L | liter(s) |
| m3 | cubic meter(s) | µL | microliter(s) |
| | | pg/L | picogram/liter |
| < | less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test. | | |
| > | greater than | | |
| J | estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ). | | |
| 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 of gas 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. | | |

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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