Analysis Report

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ANALYTICAL RESULTS

Prepared by: Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 ExxonMobil PO Box 4592 Houston TX 77210-4592

July 23, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/11/2014 Group Number: 1488256 SDG: PEO12 PO Number: 4410181435 Release Number: SIXSMITH State of Sample Origin: AR

| Client Sample Description | Lancaster Labs (LL) # |
|---|-----------------------|
| WS-007(0.5-1.0)071014 Grab Surface Water | 7529725 |
| WS-009(Surface)071014 Grab Surface Water | 7529726 |
| WS-001(0.5-1.0)071014 Grab Surface Water | 7529727 |
| WS-021(Surface)071014 Grab Surface Water | 7529728 |
| WS-004(0.5-1.0)071014 Grab Surface Water | 7529729 |
| WS-004(0.5-1.0)071014MS Grab Surface Water | 7529730 |
| WS-004(0.5-1.0)071014MSD Grab Surface Water | 7529731 |
| DUP-WS-133-071014 Grab Surface Water | 7529732 |

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 | ARCADIS | Attn: Lyndi Mott |
| COPY TO ELECTRONIC | ExxonMobil | Attn: Michael J. Firth |
| COPY TO | | |
| ELECTRONIC COPY TO | ARCADIS | Attn: Emily Leamer |
| ELECTRONIC | ARCADIS | Attn: Rhiannon Parmalee |
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| ELECTRONIC COPY TO | ExxonMobil | Attn: Michael L Sixsmith |
| ELECTRONIC | ExxonMobil | Attn: Julie Foster |
| COPY TO | | |
| ELECTRONIC | ARCADIS | Attn: Kim Abbott |



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COPY TO

Respectfully Submitted,

Katherine A. Klinefelter Principal Specialist

Katherine a. Klinefelter

(717) 556-7256



Project Name: Mayflower, AR Pipeline Incident LL Group #: 1488256

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Sample #s: 7529725

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials with the exception of: only fluoranthene was detected in the re-extraction. 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 #s: 7529727, 7529728, 7529729, 7529730, 7529731, 7529732

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

Sample #s: 7529726

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials. 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.

Batch #: 14196WAE026 (Sample number(s): 7529725-7529732 UNSPK: 7529729)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: 1-Methylnaphthalene, 2-Methylnaphthalene, 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 the following analyte(s) in the MS and/or MSD was outside the acceptance window: Anthracene, Benzo(a)pyrene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7529725, 7529726

7/23/2014 1:43:47PM



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Sample Description: WS-007(0.5-1.0)071014 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7529725

LL Group # 1488256 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 11:10 by MH ExxonMobil PO Box 4592

Houston TX 77210-4592

Submitted: 07/11/2014 09:30 Reported: 07/23/2014 13:42

P1201 SDG#: PEO12-01

| 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 | 0.011 J | 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 | 0.018 J | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | 0.014 J | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | 0.012 J | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | 0.019 J | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | 0.013 J | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | 0.022 J | 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 | 0.015 J | 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 | 0.019 J | 0.010 | 0.052 | 1 |

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials with the exception of:

only fluoranthene was detected in the re-extraction.

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.

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.

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | me | Analyst | Dilution Factor |
|------------|----------------------------|------------------|--------|-------------|-------------------------|-------|----------------|--------------------|
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 14196WAE026 | 07/17/2014 | 05:32 | Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 | 15:30 | Seth A Farrier | 1 |



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Sample Description: WS-009(Surface)071014 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7529726

LL Group # 1488256 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 11:15 by MH ExxonMobil PO Box 4592

PO Box 4592

Houston TX 77210-4592

Submitted: 07/11/2014 09:30 Reported: 07/23/2014 13:42

P1202 SDG#: PEO12-02

| 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 | 0.050 | 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 a target analyte | (s) in the Laborat | ory Control | | | |

The recovery for a target analyte(s) in the Laboratory Control $\mathrm{Spike}(s)$ is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

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.

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.

| 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 | 14196WAE026 | 07/17/2014 05: | 59 Brian K Graham | 1 |
| 10470 | BNA Water Extraction | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 15: | 30 Seth A Farrier | 1 |



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Sample Description: WS-001(0.5-1.0)071014 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7529727

LL Group # 1488256 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 11:20 by MH ExxonMobil PO Box 4592

Houston TX 77210-4592

Submitted: 07/11/2014 09:30 Reported: 07/23/2014 13:42

P1203 SDG#: PEO12-03

| 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 82 | 70C 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 |
| Spike | recovery for a target analyte(s) e(s) is outside the QC acceptanc | e limits as not | ed on the QC | | | |
| Summa | ary. The following corrective a | ction was taken | : | | | |
| | sample was re-extracted outside | _ | | | | |
| | and the QC is compliant. All r t trial. Similar results were o | | | | | |

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.

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | e | Analyst | Dilution Factor |
|------------|----------------------------|------------------|--------|-------------|---------------------------|-------|----------------|--------------------|
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 14196WAE026 | 07/17/2014 0 | 06:26 | Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 1 | 15:30 | Seth A Farrier | 1 |



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Sample Description: WS-021(Surface)071014 Grab Surface Water

S20135565 Mayflower, AR Pipeline Incident LL Group # 1488256 Account # 14739

LL Sample # WW 7529728

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 11:25 by MH ExxonMobil PO Box 4592

Houston TX 77210-4592

Submitted: 07/11/2014 09:30 Reported: 07/23/2014 13:42

P1204 SDG#: PEO12-04

| 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 | 0.051 | 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 |
| Spike Summa The s time | recovery for a target analyte e(s) is outside the QC accepta ary. The following corrective sample was re-extracted outside and the QC is compliant. All t trial. Similar results were | ance limits as not e action was taken de the method requ l results are repo | ed on the QC :: ired holding orted from the | | | |

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.

| 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 | 14196WAE026 | 07/17/2014 06:54 | Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 15:30 | Seth A Farrier | 1 |



Analysis Report

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Sample Description: WS-004(0.5-1.0)071014 Grab Surface Water

LL Sample # WW 7529729 S20135565 Mayflower, AR LL Group # 1488256 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 11:30 by MH ExxonMobil PO Box 4592

Submitted: 07/11/2014 09:30 Houston TX 77210-4592

Reported: 07/23/2014 13:42

P1205 SDG#: PEO12-05BKG

| 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 8 | 3270C 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 a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC | | | | | | | | |

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

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.

| 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 | 14196WAE026 | 07/16/2014 18:44 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 15:30 | Seth A Farrier | 1 |



Analysis Report

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Sample Description: WS-004(0.5-1.0)071014MS Grab Surface Water

LL Sample # WW 7529730 S20135565 Mayflower, AR LL Group # 1488256 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 11:30 by MH ExxonMobil PO Box 4592

Submitted: 07/11/2014 09:30 Houston TX 77210-4592

Reported: 07/23/2014 13:42

P1205 SDG#: PEO12-05MS

| 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 | 1.0 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Acenaphthylene | 208-96-8 | 0.97 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Anthracene | 120-12-7 | 0.55 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Benzo(a)anthracene | 56-55-3 | 0.75 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Benzo(a)pyrene | 50-32-8 | 0.55 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Benzo(b) fluoranthene | 205-99-2 | 0.73 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | 0.57 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Benzo(k) fluoranthene | 207-08-9 | 0.74 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Chrysene | 218-01-9 | 0.79 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | 0.61 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Fluoranthene | 206-44-0 | 0.93 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Fluorene | 86-73-7 | 0.95 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.61 | 0.010 | 0.051 | 1 | | | | |
| 08357 | 1-Methylnaphthalene | 90-12-0 | 0.92 | 0.010 | 0.051 | 1 | | | | |
| 08357 | 2-Methylnaphthalene | 91-57-6 | 0.88 | 0.010 | 0.051 | 1 | | | | |
| 08357 | Naphthalene | 91-20-3 | 0.92 | 0.030 | 0.051 | 1 | | | | |
| 08357 | Phenanthrene | 85-01-8 | 0.92 | 0.030 | 0.051 | 1 | | | | |
| 08357 | Pyrene | 129-00-0 | 0.78 | 0.010 | 0.051 | 1 | | | | |
| Spike | The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC | | | | | | | | | |

Summary. The following corrective action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

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.

| 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 | 14196WAE026 | 07/16/2014 19: | 11 Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 15: | 30 Seth A Farrier | 1 |



Analysis Report

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Sample Description: WS-004(0.5-1.0)071014MSD Grab Surface Water

LL Sample # WW 7529731 S20135565 Mayflower, AR LL Group # 1488256 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 11:30 by MH ExxonMobil PO Box 4592

Houston TX 77210-4592

Submitted: 07/11/2014 09:30 Reported: 07/23/2014 13:42

P1205 SDG#: PEO12-05MSD

| 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 82 | 70C SIM | ug/l | ug/l | ug/l | | | | |
| 08357 | Acenaphthene | 83-32-9 | 0.99 | 0.010 | 0.050 | 1 | | | |
| 08357 | Acenaphthylene | 208-96-8 | 0.98 | 0.010 | 0.050 | 1 | | | |
| 08357 | Anthracene | 120-12-7 | 0.57 | 0.010 | 0.050 | 1 | | | |
| 08357 | Benzo(a)anthracene | 56-55-3 | 0.83 | 0.010 | 0.050 | 1 | | | |
| 08357 | Benzo(a)pyrene | 50-32-8 | 0.66 | 0.010 | 0.050 | 1 | | | |
| 08357 | Benzo(b) fluoranthene | 205-99-2 | 0.86 | 0.010 | 0.050 | 1 | | | |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | 0.70 | 0.010 | 0.050 | 1 | | | |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | 0.90 | 0.010 | 0.050 | 1 | | | |
| 08357 | Chrysene | 218-01-9 | 0.87 | 0.010 | 0.050 | 1 | | | |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | 0.79 | 0.010 | 0.050 | 1 | | | |
| 08357 | Fluoranthene | 206-44-0 | 0.96 | 0.010 | 0.050 | 1 | | | |
| 08357 | Fluorene | 86-73-7 | 0.97 | 0.010 | 0.050 | 1 | | | |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.77 | 0.010 | 0.050 | 1 | | | |
| 08357 | 1-Methylnaphthalene | 90-12-0 | 0.92 | 0.010 | 0.050 | 1 | | | |
| 08357 | 2-Methylnaphthalene | 91-57-6 | 0.87 | 0.010 | 0.050 | 1 | | | |
| 08357 | Naphthalene | 91-20-3 | 0.95 | 0.030 | 0.050 | 1 | | | |
| 08357 | Phenanthrene | 85-01-8 | 0.92 | 0.030 | 0.050 | 1 | | | |
| 08357 | Pyrene | 129-00-0 | 0.80 | 0.010 | 0.050 | 1 | | | |
| | recovery for a target analyte(s) | | | | | | | | |
| _ | e(s) is outside the QC acceptance ary. The following corrective ac | | ~ | | | | | | |
| The s | sample was re-extracted outside t | ne method requi | red holding | | | | | | |
| | time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials. | | | | | | | | |

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.

| 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 | 14196WAE026 | 07/16/2014 19:38 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 15:30 | Seth A Farrier | 1 |



Analysis Report

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Sample Description: DUP-WS-133-071014 Grab Surface Water

LL Sample # WW 7529732 S20135565 Mayflower, AR LL Group # 1488256 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/10/2014 by MH ExxonMobil PO Box 4592

Submitted: 07/11/2014 09:30 Houston TX 77210-4592

Reported: 07/23/2014 13:42

P1206 SDG#: PEO12-06FD*

| 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 82 | 270C 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 | | | |
| Spike Summa The s time | The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials. | | | | | | | | |

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.

| 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 | 14196WAE026 | 07/17/2014 07 | 21 Brian K Graham | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 14196WAE026 | 07/15/2014 15 | 30 Seth A Farrier | 1 |

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1488256

Reported: 07/23/14 at 01:42 PM

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

| Analysis Name | Blank <u>Result</u> | Blank MDL** | Blank <u>LOO</u> | Report <u>Units</u> | LCS %REC | LCSD %REC | LCS/LCSD <u>Limits</u> | RPD | RPD Max |
|---------------------------|------------------------|----------------|---------------------|------------------------|-------------|--------------|---------------------------|-----|---------|
| Batch number: 14196WAE026 | Sample num | ber(s): 7 | 529725-752 | 19732 | | | | | |
| Acenaphthene | N.D. | 0.010 | 0.050 | ug/l | 100 | | 83-119 | | |
| Acenaphthylene | N.D. | 0.010 | 0.050 | ug/l | 88 | | 81-130 | | |
| Anthracene | N.D. | 0.010 | 0.050 | ug/l | 90 | | 83-125 | | |
| Benzo(a)anthracene | N.D. | 0.010 | 0.050 | ug/l | 84 | | 79-122 | | |
| Benzo(a)pyrene | N.D. | 0.010 | 0.050 | ug/l | 79* | | 80-121 | | |
| Benzo(b)fluoranthene | N.D. | 0.010 | 0.050 | ug/l | 83 | | 79-136 | | |
| Benzo(g,h,i)perylene | N.D. | 0.010 | 0.050 | ug/l | 47* | | 72-132 | | |
| Benzo(k)fluoranthene | N.D. | 0.010 | 0.050 | ug/l | 75* | | 81-131 | | |
| Chrysene | N.D. | 0.010 | 0.050 | ug/l | 85 | | 84-118 | | |
| Dibenz(a,h)anthracene | N.D. | 0.010 | 0.050 | ug/l | 38* | | 66-133 | | |
| Fluoranthene | N.D. | 0.010 | 0.050 | ug/l | 90 | | 84-124 | | |
| Fluorene | N.D. | 0.010 | 0.050 | ug/l | 87 | | 82-119 | | |
| Indeno(1,2,3-cd)pyrene | N.D. | 0.010 | 0.050 | ug/l | 47* | | 68-132 | | |
| 1-Methylnaphthalene | N.D. | 0.010 | 0.050 | ug/l | 83* | | 86-130 | | |
| 2-Methylnaphthalene | N.D. | 0.010 | 0.050 | ug/l | 80* | | 81-131 | | |
| Naphthalene | N.D. | 0.030 | 0.050 | ug/l | 85 | | 82-122 | | |
| Phenanthrene | N.D. | 0.030 | 0.050 | ug/l | 86 | | 83-116 | | |
| Pyrene | N.D. | 0.010 | 0.050 | ug/l | 89 | | 78-125 | | |

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

| Analysis Name | MS %REC | MSD %REC | MS/MSD <u>Limits</u> | RPD | RPD <u>MAX</u> | BKG Conc | DUP Conc | DUP <u>RPD</u> | Dup RPD <u>Max</u> |
|---------------------------|------------|-------------|-------------------------|--------|-------------------|-------------|-------------|-------------------|-----------------------|
| Batch number: 14196WAE026 | Sample | number(s) | : 7529725 | -75297 | 32 UNSP | K: 7529729 | | | |
| Acenaphthene | 100 | 98 | 60-130 | 3 | 30 | | | | |
| Acenaphthylene | 96 | 97 | 75-132 | 1 | 30 | | | | |
| Anthracene | 54* | 56* | 69-119 | 4 | 30 | | | | |
| Benzo(a)anthracene | 74 | 82 | 37-135 | 10 | 30 | | | | |
| Benzo(a)pyrene | 54* | 65 | 64-123 | 18 | 30 | | | | |
| Benzo(b)fluoranthene | 72 | 85 | 41-137 | 16 | 30 | | | | |
| Benzo(g,h,i)perylene | 56 | 70 | 21-127 | 22 | 30 | | | | |
| Benzo(k)fluoranthene | 73 | 89 | 38-130 | 20 | 30 | | | | |
| Chrysene | 78 | 86 | 58-117 | 9 | 30 | | | | |
| Dibenz(a,h)anthracene | 60 | 78 | 17-134 | 26 | 30 | | | | |
| Fluoranthene | 92 | 95 | 63-129 | 2 | 30 | | | | |
| Fluorene | 94 | 96 | 74-127 | 1 | 30 | | | | |
| Indeno(1,2,3-cd)pyrene | 60 | 77 | 26-130 | 24 | 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.

Analysis Report

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1488256

Reported: 07/23/14 at 01:42 PM

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

| | MS | MSD | MS/MSD | | RPD | BKG | DUP | DUP | Dup RPD |
|---------------------|------|------|---------------|-----|------------|------|------|-----|---------|
| Analysis Name | %REC | %REC | <u>Limits</u> | RPD | <u>MAX</u> | Conc | Conc | RPD | Max |
| 1-Methylnaphthalene | 91 | 91 | 82-133 | 0 | 30 | | | | |
| 2-Methylnaphthalene | 86 | 87 | 73-138 | 0 | 30 | | | | |
| Naphthalene | 91 | 94 | 58-131 | 3 | 30 | | | | |
| Phenanthrene | 91 | 91 | 72-126 | 0 | 30 | | | | |
| Pyrene | 77 | 80 | 36-142 | 3 | 30 | | | | |

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: PAHs in waters by SIM Batch number: 14196WAE026

| | Fluoranthene-d10 | Benzo(a)pyrene-d12 | 1-Methylnaphthalene- d10 |
|---------|------------------|--------------------|-----------------------------|
| 7529725 | 87 | 58* | 82 |
| 7529726 | 89 | 57* | 82 |
| 7529727 | 92 | 63 | 85 |
| 7529728 | 95 | 79 | 84 |
| 7529729 | 95 | 67 | 82 |
| 7529730 | 95 | 66 | 90 |
| 7529731 | 98 | 83 | 88 |
| 7529732 | 95 | 77 | 86 |
| Blank | 90 | 87 | 79 |
| LCS | 90 | 79 | 82 |
| MS | 95 | 66 | 90 |
| MSD | 98 | 83 | 88 |
| Limits: | 59-128 | 62-141 | 70-134 |

^{*-} Outside of specification

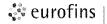
^{**-}This limit was used in the evaluation of the final result for the blank

⁽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.

ExxonMobil Analysis Request/Chain of Custody

| eurofins Lancaster | 147 | 39 | | For Group # Instru | Eurof 14 euctions o | ins Lai | caste 50 e side co | r Labo Sa prrespon | ratories mple # d with circ | use or 75 ed numb | ју 29- ers. | 12 | 5-36 | 9 | — / o | f/ |
|---|------------------|-----------|--|--------------------------|--|------------------|--------------------------|--------------------------|-----------------------------------|-------------------------|-------------------|--------|---------|--------|---|-------------------------|
| Client Information | | 4 |) M | atrix | | 5 |) | | nalyse | | | | | SCR | # : | |
| May flower Pipeline Incident | | | | | | - | 1 | 1 | Presei | vatio | 1 Cod | e T | | | Preservation |) Codes |
| Site Address May flower Af | | | _ g _ | Surface X | | | | | | | | | | N | = HCI T = = HNO ₃ B | = Thiosulfate = NaOH |
| ExxonMobil PM Cost Center/AFE Mike SixSmith | | | Ground | Surfa | | | 5 | | | | | | | 6 6 | = H ₂ SO ₄ O Rema r | = Other ks |
| Consultant/Office | | | | | | | | | | | | | | | | |
| Consultant PM Steve Barrick Consultant Phone # 919-302-6799 | ĝ | 3 | Se Potable | NPDES | Air Air | or containers | | | | | | | | | | |
| Sampler Matt Hamby | Wall Replacement | osite | 71 | Ir | | | 5 | | | | | | | | | |
| 2 Collected Sample Identification Date Time | Grab | Composite | | Water | Oil Fotor | OAH OAH | | | | | | | | | | |
| WS-607(015-10)071014 7/10/14 1110 | X | | | χ | ∂ | | | | | | | | | | | |
| WS-009 (Surface) 071014 17/10/14 1115 120 | X | | | × | 5 6 0 | | ۸ . | | | | | ļ | | | | |
| W5-001 (0.5-1.0) 071014 7/10/14 1120 W5-021 (Surface) 071014 7/10/14 1125 | | | | $\frac{\langle}{\times}$ | | | , | | | - | | - | | | | |
| WS-004 (0,5-10) 071014 7/10/14 1130 | X | | | | - | | | | | | | | | | , | |
| WS-004(05-1.0)071014 MS/MSD 7/16/14 1130 | IX. | | | <u> </u> | 4 | X | | | | | | | | M | 5/MSD | |
| DUP-WS-133-071014 7/10/14 - | + | | + | | | 4 4 | | | | | - | _ | | | | |
| | | | | | | | | | | | | | | | 21 | |
| | | | | | | | | | | | | | | | | |
| 7 Turnaround Time Requested (TAT) (please circle) Relinquish | ed by | UM | , | | Da | te _i | | Time | | Rec | eived b | / ; | | | Date | Time (9) |
| Standard 5 day 4 day | SH - | US) | | | 7 Da | /10/ | 14 | Time | 00 | Page | -i al b. | 1 | | | | |
| 72 hour 48 hour 24 hour | | | | | | | | Time | | Rec | eived b | | | | Date | Time |
| 8) Data Package (circle if required) EDD (circle if required) | ed by | | | | Da | te | | Time | | Rec | eived b | , V | | | Date | Time |
| Type I - Full Locus EIM (default) | ed by Cor | nmercial | Carrier | | | | | <u> </u> | | Rec | eiyed b | , | n | | Date / | Time |
| Type VI (Raw Data) Other UPS | <u> X</u> | • | FedE | x | Contraction of the Contraction o | Other | | | | . (| 6 | sh | _ | | 7/11/14 | 0930 |
| NJ Reduced Other | Ten | nperat | ure Up | on Red | ceipt _ | 0'5 | | _°C | | | Cus | stody | Seals I | ntact? | Yes | No |



Sample Administration Receipt Documentation Log

Doc Log ID:

19738

Group Number(s): 14 88256

Client: EXXONMOBIL

MAYFLOWER

Delivery and Receipt Information

Delivery Method:

UPS

Arrival Timestamp:

07/11/2014 9:30

Number of Packages:

1

Number of Projects:

1

State/Province of Origin:

AR

Arrival Condition Summary

Shipping Container Sealed:

Yes

Total Trip Blank Qty:

0

Custody Seal Present:

Yes

Trip Blank Type:

<u>N/A</u>

Custody Seal Intact:

<u>Yes</u>

Air Quality Samples Present:

No N/A

Samples Chilled: Paperwork Enclosed: <u>Yes</u> <u>Yes</u>

Air Quality Flow Controllers Present: Flow Controller Quantity:

0

Samples Intact:

Yes No

Air Quality Returns:

N/A

Missing Samples:

No

Extra Samples: Discrepancy in Container Qty on COC:

No

Sample IDs on COC match Containers:

Yes

Sample Date/Times match COC:

<u>Yes</u>

VOA Vial Headspace ≥ 6mm:

N/A

VOA IDs (\geq 6mm):

N/A

Unpacked by Corey Eshleman (3647) at 10:59 on 07/11/2014

Samples Chilled Details: MAYFLOWER

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Samples_ Collected Same

Cooler # Thermometer ID Corrected Temp

Therm. Type

Ice Type

Ice Present?

Ice Container

Day as Receipt?

Elevated Temp?

DT121

0.5

DT

Wet

Υ

Bagged

Ν



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) |
| С | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| μg | microgram(s) | mg | milligram(s) |
| mĹ | milliliter(s) | Ĺ | liter(s) |
| m3 | cubic meter(s) | μL | microliter(s) |
| | | pg/L | picogram/liter |

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

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

ppb parts per billion

Dry weightbasis
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 ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

| | Organic Qualifiers | | Inorganic Qualifiers |
|-------|--|---|--|
| Α | TIC is a possible aldol-condensation product | В | Value is <crdl, but="" th="" ≥idl<=""></crdl,> |
| В | Analyte was also detected in the blank | E | Estimated due to interference |
| С | 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 |
| Ε | Concentration exceeds the calibration range of | S | Method of standard additions (MSA) used |
| | the instrument | | for calculation |
| N | Presumptive evidence of a compound (TICs only) | U | Compound was not detected |
| Р | Concentration difference between primary and | W | Post digestion spike out of control limits |
| | confirmation columns >25% | * | Duplicate analysis not within control limits |
| U | Compound was not detected | + | Correlation coefficient for MSA < 0.995 |
| X,Y,Z | Defined in case narrative | | |

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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