

## ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ExxonMobil  
PO Box 4592  
Houston TX 77210-4592

June 12, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/30/2014  
Group Number: 1478188  
SDG: PEO02  
PO Number: 4410181435  
Release Number: SIXSMITH  
State of Sample Origin: AR

Client Sample Description

WS-007(0.5-1.0)052914 Grab Surface Water  
WS-009(Surface)052914 Grab Surface Water  
WS-001(0.5-1.0)052914 Grab Surface Water  
WS-021(Surface)052914 Grab Surface Water  
WS-004(0.5-1.0)052914 Grab Surface Water

Lancaster Labs (LL) #

7482111  
7482112  
7482113  
7482114  
7482115

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	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ARCADIS	Attn: Kim Abbott

Respectfully Submitted,



Katherine A. Klinefelter  
Principal Specialist

(717) 556-7256

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Project Name: Mayflower, AR Pipeline Incident  
LL Group #: 1478188

**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**

Sample #s: 7482111, 7482112, 7482113, 7482114, 7482115

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

Sample Description: WS-007(0.5-1.0)052914 Grab Surface Water  
S20135565 Mayflower, AR  
Pipeline Incident

LL Sample # WW 7482111  
LL Group # 1478188  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2014 13:45 by LMH ExxonMobil  
PO Box 4592  
Submitted: 05/30/2014 09:30 Houston TX 77210-4592  
Reported: 06/12/2014 15:05

07051 SDG#: PEO02-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS</b>	<b>Semivolatiles</b>	<b>SW-846 8270C SIM</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1

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

### 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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14151WAG026	06/11/2014 09:37	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14151WAG026	06/02/2014 07:40	Roman Kuropatkin	1

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

Sample Description: WS-009 (Surface) 052914 Grab Surface Water  
S20135565 Mayflower, AR  
Pipeline Incident

LL Sample # WW 7482112  
LL Group # 1478188  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2014 13:55 by LMH ExxonMobil  
PO Box 4592  
Submitted: 05/30/2014 09:30 Houston TX 77210-4592  
Reported: 06/12/2014 15:05

09SRF SDG#: PEO02-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS</b>	<b>Semivolatiles</b>	<b>SW-846 8270C SIM</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	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

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

### 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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14151WAG026	06/11/2014 10:07	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14151WAG026	06/02/2014 07:40	Roman Kuropatkin	1

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

Sample Description: WS-001(0.5-1.0)052914 Grab Surface Water  
S20135565 Mayflower, AR  
Pipeline Incident

LL Sample # WW 7482113  
LL Group # 1478188  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2014 14:05 by LMH ExxonMobil  
PO Box 4592  
Submitted: 05/30/2014 09:30 Houston TX 77210-4592  
Reported: 06/12/2014 15:05

01051 SDG#: PEO02-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS</b>	<b>Semivolatiles</b>	<b>SW-846 8270C SIM</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

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

### 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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14151WAG026	06/11/2014 10:36	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14151WAG026	06/02/2014 07:40	Roman Kuropatkin	1

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

Sample Description: WS-021(Surface)052914 Grab Surface Water  
S20135565 Mayflower, AR  
Pipeline Incident

LL Sample # WW 7482114  
LL Group # 1478188  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2014 14:15 by LMH ExxonMobil  
PO Box 4592  
Submitted: 05/30/2014 09:30 Houston TX 77210-4592  
Reported: 06/12/2014 15:05

21SRF SDG#: PEO02-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS</b>	<b>Semivolatiles</b>	<b>SW-846 8270C SIM</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	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

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

### 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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14151WAG026	06/11/2014 11:06	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14151WAG026	06/02/2014 07:40	Roman Kuropatkin	1

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

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

Sample Description: WS-004(0.5-1.0)052914 Grab Surface Water  
S20135565 Mayflower, AR  
Pipeline Incident

LL Sample # WW 7482115  
LL Group # 1478188  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/29/2014 14:25 by LMH ExxonMobil  
PO Box 4592  
Submitted: 05/30/2014 09:30 Houston TX 77210-4592  
Reported: 06/12/2014 15:05

04051 SDG#: PEO02-05\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS</b>	<b>Semivolatiles</b>	<b>SW-846 8270C SIM</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1

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

### 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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14151WAG026	06/11/2014 11:36	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14151WAG026	06/02/2014 07:40	Roman Kuropatkin	1

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



## Quality Control Summary

Client Name: ExxonMobil  
Reported: 06/12/14 at 03:05 PM

Group Number: 1478188

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: 14151WAG026      Sample number(s): 7482111-7482115									
Acenaphthene	N.D.	0.010	0.050	ug/l	107	106	83-119	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	103	103	81-130	1	30
Anthracene	N.D.	0.010	0.050	ug/l	103	101	83-125	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	105	105	79-122	0	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	106	103	80-121	3	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	109	108	79-136	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	98	96	72-132	2	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	107	101	81-131	6	30
Chrysene	N.D.	0.010	0.050	ug/l	103	102	84-118	1	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	99	97	66-133	2	30
Fluoranthene	N.D.	0.010	0.050	ug/l	103	98	84-124	4	30
Fluorene	N.D.	0.010	0.050	ug/l	98	97	82-119	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	98	96	68-132	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	91	91	86-130	0	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	88	87	81-131	1	30
Naphthalene	N.D.	0.030	0.050	ug/l	94	93	82-122	1	30
Phenanthrene	N.D.	0.030	0.050	ug/l	99	99	83-116	0	30
Pyrene	N.D.	0.010	0.050	ug/l	96	96	78-125	0	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: 14151WAG026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7482111	96	99	87
7482112	100	86	90
7482113	103	92	87
7482114	116	94	90
7482115	108	108	90
Blank	104	116	89
LCS	106	123	94
LCSD	103	118	92

\*- Outside of specification

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

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

**Quality Control Summary**Client Name: ExxonMobil  
Reported: 06/12/14 at 03:05 PM

Group Number: 1478188

**Surrogate Quality Control**

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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



**Lancaster Laboratories Environmental**

Act. # 14739 For Eurofins Lancaster Laboratories Environmental use only  
 Group # 1478185 Sample # 7482111-15  
Instructions on reverse side correspond with circled numbers.

1 of 1

<b>1 Client Information</b>				<b>4 Matrix</b>			<b>5 Analyses Requested</b>										SCR#: _____						
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	Air <input type="checkbox"/>	Preservation Code										<b>6 Preservation Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other						
Site Address <u>Mayflower AR</u>							Total # of Containers <u>PAH 8270 SIM</u>																
ExxonMobil PM <u>Mike Sixsmith</u>		Cost Center/AFE																					
Consultant/Office <u>Arcadis</u>																							
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>																					
Sampler <u>Beland Matthew Hamby (LMH)</u>				<b>3</b>												<b>6 Remarks</b>							
<b>2 Sample Identification</b>				Collected																			
		Date		Time		Grab		Composite															
<u>WS-007 (0.5-1.0)</u>		<u>052914</u>		<u>5-29-14</u>		<u>1345</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>													
<u>WS-009 (Surface)</u>		<u>052914</u>		<u>5-29-14</u>		<u>1355</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>													
<u>WS-001 (0.5-1.0)</u>		<u>052914</u>		<u>5-29-14</u>		<u>1405</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>													
<u>WS-021 (Surface)</u>		<u>052914</u>		<u>5-29-14</u>		<u>1415</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>													
<u>WS-004 (0.5-1.0)</u>		<u>052914</u>		<u>5-29-14</u>		<u>1425</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>													
<b>7 Turnaround Time Requested (TAT) (please circle)</b>				Standard <input checked="" type="radio"/> 5 day		4 day <input type="radio"/>		72 hour <input type="radio"/>		48 hour <input type="radio"/>		24 hour <input type="radio"/>		Relinquished by <u>[Signature]</u> Date <u>5/29/14</u> Time <u>1630</u> Relinquished by _____ Date _____ Time _____ Relinquished by _____ Date _____ Time _____ Relinquished by Commercial Carrier UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ Received by <u>[Signature]</u> Date <u>5-30-14</u> Time <u>930</u>									
				Temperature Upon Receipt <u>0.6</u> °C						Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No													

Client: ExxonMobil

**Mayflower**

**Delivery and Receipt Information**

Delivery Method: UPS Arrival Timestamp: 05/30/2014 9:30  
 Number of Packages: 1 Number of Projects: 1  
 State/Province of Origin: AR

**Arrival Condition Summary**

Shipping Container Sealed:	<u>Yes</u>	Total Trip Blank Qty:	<u>0</u>
Custody Seal Present:	<u>Yes</u>	Trip Blank Type:	<u>N/A</u>
Custody Seal Intact:	<u>Yes</u>	Air Quality Samples Present:	<u>No</u>
Samples Chilled:	<u>Yes</u>	Air Quality Flow Controllers Present:	<u>N/A</u>
Paperwork Enclosed:	<u>Yes</u>	Flow Controller Quantity:	<u>0</u>
Samples Intact:	<u>Yes</u>	Air Quality Returns:	<u>N/A</u>
Missing Samples:	<u>No</u>		
Extra Samples:	<u>No</u>		
Discrepancy in Container Qty on COC:	<u>No</u>		
Sample IDs on COC match Containers:	<u>Yes</u>		
Sample Date/Times match COC:	<u>Yes</u>		
VOA Vial Headspace $\geq$ 6mm:	<u>N/A</u>		
VOA IDs ( $\geq$ 6mm):	<u>N/A</u>		

Unpacked by Brandy Barclay (2299) at 11:01 on 05/30/2014

**Samples Chilled Details: Mayflower**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	<u>Samples</u> Collected Same Day as Receipt?	Elevated Temp?
1	DT146	0.6	DT	Wet	Y	Bagged	N	N

# Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

**ppb** parts per billion

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

*Data Qualifiers:*

**C** – result confirmed by reanalysis.

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

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

**Inorganic Qualifiers**

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

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

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

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

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

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