

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

May 02, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/25/2014
Group Number: 1469755
SDG: PEM96
PO Number: 4410181435
Release Number: SIXSMITH
State of Sample Origin: AR

Client Sample Description

WS-007(0.5-1.0)042414 Grab Surface Water
WS-009(Surface)042414 Grab Surface Water
WS-001(0.5-1.0)042414 Grab Surface Water
WS-021(Surface)042414 Grab Surface Water
WS-004(0.5-1.0)042414 Grab Surface Water

Lancaster Labs (LL) #

7442069
7442070
7442071
7442072
7442073

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

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1469755

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: 7442069, 7442070, 7442071, 7442072, 7442073

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

Sample Description: WS-007(0.5-1.0)042414 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7442069
LL Group # 1469755
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2014 10:55 by ZP ExxonMobil
PO Box 4592
Houston TX 77210-4592
Submitted: 04/25/2014 09:20
Reported: 05/02/2014 18:30

P9601 SDG#: PEM96-01

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	0.051	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	0.012 J	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	0.014 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.012 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	0.017 J	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	0.036 J	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	0.014 J	0.010	0.051	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

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	14116WAA026	04/28/2014 19:33	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14116WAA026	04/27/2014 16:30	Elaine F Stoltzfus	1

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

Sample Description: WS-009 (Surface) 042414 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7442070
LL Group # 1469755
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2014 11:05 by ZP ExxonMobil
PO Box 4592
Submitted: 04/25/2014 09:20 Houston TX 77210-4592
Reported: 05/02/2014 18:30

P9602 SDG#: PEM96-02

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	0.011 J	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	0.024 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.039 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.016 J	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	0.038 J	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	0.043 J	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

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

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	14116WAA026	04/28/2014 20:01	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14116WAA026	04/27/2014 16:30	Elaine F Stoltzfus	1

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

Sample Description: WS-001(0.5-1.0)042414 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7442071
LL Group # 1469755
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2014 11:15 by ZP ExxonMobil
PO Box 4592
Houston TX 77210-4592
Submitted: 04/25/2014 09:20
Reported: 05/02/2014 18:30

P9603 SDG#: PEM96-03

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 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	0.011 J	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	0.013 J	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

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

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	14116WAA026	04/28/2014 20:28	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14116WAA026	04/27/2014 16:30	Elaine F Stoltzfus	1

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

Sample Description: WS-021(Surface)042414 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7442072
LL Group # 1469755
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2014 11:20 by ZP ExxonMobil
PO Box 4592
Submitted: 04/25/2014 09:20 Houston TX 77210-4592
Reported: 05/02/2014 18:30

P9604 SDG#: PEM96-04

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	0.012 J	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	0.011 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.012 J	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	0.014 J	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

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

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	14116WAA026	04/28/2014 20:56	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14116WAA026	04/27/2014 16:30	Elaine F Stoltzfus	1

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

Sample Description: WS-004(0.5-1.0)042414 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7442073
LL Group # 1469755
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2014 11:25 by ZP ExxonMobil
PO Box 4592
Submitted: 04/25/2014 09:20 Houston TX 77210-4592
Reported: 05/02/2014 18:30

P9605 SDG#: PEM96-05*

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	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	0.011 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	N.D.	0.010	0.052	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

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	14116WAA026	04/28/2014 21:24	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14116WAA026	04/27/2014 16:30	Elaine F Stoltzfus	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/02/14 at 06:30 PM

Group Number: 1469755

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: 14116WAA026	Sample number(s): 7442069-7442073								
Acenaphthene	N.D.	0.010	0.050	ug/l	115		83-119		
Acenaphthylene	N.D.	0.010	0.050	ug/l	107		81-130		
Anthracene	N.D.	0.010	0.050	ug/l	111		83-125		
Benzo(a)anthracene	0.022 J	0.010	0.050	ug/l	103		79-122		
Benzo(a)pyrene	0.021 J	0.010	0.050	ug/l	112		80-121		
Benzo(b)fluoranthene	0.027 J	0.010	0.050	ug/l	119		79-136		
Benzo(g,h,i)perylene	0.080	0.010	0.050	ug/l	111		72-132		
Benzo(k)fluoranthene	0.022 J	0.010	0.050	ug/l	117		81-131		
Chrysene	0.022 J	0.010	0.050	ug/l	105		84-118		
Dibenz(a,h)anthracene	0.063	0.010	0.050	ug/l	106		66-133		
Fluoranthene	0.015 J	0.010	0.050	ug/l	107		84-124		
Fluorene	N.D.	0.010	0.050	ug/l	105		82-119		
Indeno(1,2,3-cd)pyrene	0.062	0.010	0.050	ug/l	108		68-132		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	99		86-130		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	98		81-131		
Naphthalene	N.D.	0.030	0.050	ug/l	103		82-122		
Phenanthrene	N.D.	0.030	0.050	ug/l	107		83-116		
Pyrene	0.015 J	0.010	0.050	ug/l	101		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

<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: 14116WAA026	Sample number(s): 7442069-7442073 UNSPK: P435452								
Acenaphthene	119	117	60-130	2	30				
Acenaphthylene	114	112	75-132	2	30				
Anthracene	108	110	69-119	1	30				
Benzo(a)anthracene	103	103	37-135	0	30				
Benzo(a)pyrene	89	91	64-123	1	30				
Benzo(b)fluoranthene	102	100	41-137	2	30				
Benzo(g,h,i)perylene	84	83	21-127	3	30				
Benzo(k)fluoranthene	94	95	38-130	0	30				
Chrysene	88	90	58-117	2	30				
Dibenz(a,h)anthracene	83	82	17-134	2	30				
Fluoranthene	108	107	63-129	2	30				
Fluorene	113	110	74-127	3	30				
Indeno(1,2,3-cd)pyrene	87	84	26-130	4	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

Group Number: 1469755

Reported: 05/02/14 at 06:30 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

<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>
1-Methylnaphthalene	103	101	82-133	2	30				
2-Methylnaphthalene	101	100	73-138	1	30				
Naphthalene	108	105	58-131	3	30				
Phenanthrene	111	107	72-126	4	30				
Pyrene	107	105	36-142	2	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: 14116WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7442069	104	91	94
7442070	109	91	96
7442071	109	99	96
7442072	107	106	95
7442073	106	105	100
Blank	108	106	98
LCS	112	123	103
MS	115	107	104
MSD	114	103	101
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**

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1469755 Sample # 7442069-73
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information			4 Matrix			5 Analyses Requested					6 Remarks																																																	
Facility #/SID <u>Maxflower Pipeline Incident</u>			Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>	Preservation Code					SCR#: _____		Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																	
Site Address <u>Maxflower, AR</u>				<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																																								
ExxonMobil PM <u>Scott Bushroe</u>	Cost Center/AFE		Total # of Containers <u>PAH SIM 8270</u>																																																									
Consultant/Office <u>Arcadis</u>																																																												
Consultant PM <u>Steve Barrick</u>	Consultant Phone # <u>919-302-6799</u>																																																											
Sampler <u>Zach Powers</u>																																																												
2 Sample Identification			3																																																									
		Collected		Grab <input type="checkbox"/> Composite <input type="checkbox"/>	Soil <input type="checkbox"/> Water <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers																																																					
Date	Time																																																											
<u>WS-007 (0.5-1.0)</u>	<u>042414</u>	<u>4/24/14</u>	<u>1055</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2</u>	<input checked="" type="checkbox"/>																																																				
<u>WS-009 (surface)</u>	<u>042414</u>	<u>4/24/14</u>	<u>1105</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2</u>	<input checked="" type="checkbox"/>																																																				
<u>WS-001 (0.5-1.0)</u>	<u>042414</u>	<u>4/24/14</u>	<u>1115</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2</u>	<input checked="" type="checkbox"/>																																																				
<u>WS-021 (surface)</u>	<u>042414</u>	<u>4/24/14</u>	<u>1120</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2</u>	<input checked="" type="checkbox"/>																																																				
<u>WS-004 (0.5-1.0)</u>	<u>042414</u>	<u>4/24/14</u>	<u>1125</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2</u>	<input checked="" type="checkbox"/>																																																				
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by			Date	Time	Received by		Date	Time																																																	
Standard <input checked="" type="radio"/> 5 day 4 day 72 hour 48 hour 24 hour						<u>4/24/14</u>	<u>1730</u>																																																					
8 Data Package (circle if required)			Relinquished by Commercial Carrier			Temperature Upon Receipt		Custody Seals Intact?		Date		Time																																																
Type I - Full Type VI (Raw Data) NJ Reduced Other _____			EDD (circle if required) Locus EIM (default) Other _____			UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		<u>0.4</u> °C		Yes <input checked="" type="radio"/> No _____		<u>4-25-14</u>	<u>420</u>																																															

Client: ExxonMobil

Mayflower

Delivery and Receipt Information

Delivery Method: UPS Arrival Timestamp: 04/25/2014 9:20
 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 09:44 on 04/25/2014

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 Collected Same Day as Receipt?</u>	<u>Elevated Temp?</u>
1	DT146	0.4	DT	Wet	Y	Bagged	N	N

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

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