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 12, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/02/2014
Group Number: 1471535
SDG: PEM98
PO Number: 4410181435
Release Number: SIXSMITH
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-007(0.5-1.0)050114 Grab Surface Water	7450352
WS-009(Surface)050114 Grab Surface Water	7450353
WS-001(0.5-1.0)050114 Grab Surface Water	7450354
WS-021(Surface)050114 Grab Surface Water	7450355
WS-004(0.5-1.0)050114 Grab Surface Water	7450356

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 #: 1471535

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: 7450354, 7450355

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:
naphthalene was not detected in the re-extraction.

Sample #s: 7450352

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:
several targets detected in the initial extraction were not detected in the re-
extraction.

Sample #s: 7450353, 7450356

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.

Batch #: 14122WAI026 (Sample number(s): 7450352-7450356)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

Sample Description: WS-007(0.5-1.0)050114 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7450352
LL Group # 1471535
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2014 12:00 by TDF

Submitted: 05/02/2014 09:45
Reported: 05/12/2014 13:10

ExxonMobil
PO Box 4592
Houston TX 77210-4592

P9801 SDG#: PEM98-01

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.015 J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.020 J	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.053	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.017 J	0.011	0.053	1
08357	Chrysene	218-01-9	0.037 J	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.059	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.018 J	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.050 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	0.041 J	0.011	0.053	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:
several targets detected in the initial extraction were not detected in the re-extraction.

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	14122WAI026	05/08/2014 23:47	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14122WAI026	05/04/2014 09:00	David S Schrum	1

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

Sample Description: WS-009(Surface)050114 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7450353
LL Group # 1471535
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2014 12:05 by TDF

Submitted: 05/02/2014 09:45
Reported: 05/12/2014 13:10

ExxonMobil
PO Box 4592
Houston TX 77210-4592

P9802 SDG#: PEM98-02

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.		0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.055	1
08357	Anthracene	120-12-7	N.D.		0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	0.012	J	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	0.019	J	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.029	J	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	0.020	J	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.055	1
08357	Chrysene	218-01-9	0.021	J	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.055	1
08357	Fluoranthene	206-44-0	0.021	J	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.		0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.016	J	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.011	0.055	1
08357	Naphthalene	91-20-3	0.043	J	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.		0.033	0.055	1
08357	Pyrene	129-00-0	N.D.		0.011	0.055	1

The 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.

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	14122WAI026	05/09/2014 00:16	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14122WAI026	05/04/2014 09:00	David S Schrum	1

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

Sample Description: WS-001(0.5-1.0)050114 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7450354
LL Group # 1471535
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2014 12:10 by TDF

Submitted: 05/02/2014 09:45
Reported: 05/12/2014 13:10

ExxonMobil
PO Box 4592
Houston TX 77210-4592

P9803 SDG#: PEM98-03

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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	0.053	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1

The recovery for 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:
naphthalene was not detected in the re-extraction.

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	14122WAI026	05/09/2014 00:46	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14122WAI026	05/04/2014 09:00	David S Schrum	1

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

Sample Description: WS-021(Surface)050114 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7450355
LL Group # 1471535
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2014 12:15 by TDF

Submitted: 05/02/2014 09:45
Reported: 05/12/2014 13:10

ExxonMobil
PO Box 4592
Houston TX 77210-4592

P9804 SDG#: PEM98-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	0.049 J	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1

The 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:
naphthalene was not detected in the re-extraction.

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	14122WAI026	05/09/2014 01:16	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14122WAI026	05/04/2014 09:00	David S Schrum	1

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

Sample Description: WS-004(0.5-1.0)050114 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7450356
LL Group # 1471535
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2014 12:20 by TDF

Submitted: 05/02/2014 09:45
Reported: 05/12/2014 13:10

ExxonMobil
PO Box 4592
Houston TX 77210-4592

P9805 SDG#: PEM98-05*

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1

The 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.

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	14122WAI026	05/09/2014 01:46	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14122WAI026	05/04/2014 09:00	David S Schrum	1

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

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1471535
Reported: 05/12/14 at 01:10 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 Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 14122WAI026	Sample number(s): 7450352-7450356								
Acenaphthene	N.D.	0.010	0.050	ug/l	103	100	83-119	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	95	92	81-130	2	30
Anthracene	N.D.	0.010	0.050	ug/l	94	91	83-125	3	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	94	89	79-122	6	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	94	79*	80-121	18	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	104	88	79-136	16	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	82	62*	72-132	28	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	98	76*	81-131	25	30
Chrysene	N.D.	0.010	0.050	ug/l	95	79*	84-118	19	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	70	51*	66-133	30	30
Fluoranthene	N.D.	0.010	0.050	ug/l	95	92	84-124	4	30
Fluorene	N.D.	0.010	0.050	ug/l	97	94	82-119	3	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	76	57*	68-132	29	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	95	93	86-130	3	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	92	89	81-131	4	30
Naphthalene	N.D.	0.030	0.050	ug/l	96	94	82-122	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	93	90	83-116	3	30
Pyrene	N.D.	0.010	0.050	ug/l	85	80	78-125	6	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: 14122WAI026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7450352	87	95	102
7450353	90	86	97
7450354	96	80	97
7450355	101	98	101
7450356	94	96	100
Blank	100	105	101
LCS	102	111	106
LCSD	100	92	103

*- 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.

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1471535
Reported: 05/12/14 at 01:10 PM

Surrogate Quality Control

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 Laboratories Environmental

Acct. # 14739 | For Eurofins Lancaster Laboratories Environmental use only | Group # 1471535 | Sample # 7450352-56 | 1 of 1

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower Pipeline Incident, AR

ExxonMobil PM: Mike Sizsmith | Cost Center/AFE:

Consultant/Office: Arcadis

Consultant PM: Steve Barrick | Consultant Phone #: 919 302 6799

Sampler: TDK / DTC

4 Matrix: Soil ☐ | Sediment ☐ | Water: Ground ☐ Potable ☐ NPDES ☐ Surface ☒ | Oil ☐ | Air ☐

5 Analyses Requested — Preservation Code

SCR#:

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; O = Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	PAH (8270 SIM)
WS-007 (0.5-1.0) 050114	5/1/14	1200	X		2	X
WS-009 (Surface) 050114	5/1/14	1205	X		2	X
WS-001 (0.5-1.0) 050114	5/1/14	1210	X		2	X
WS-021 (Surface) 050114	5/1/14	1215	X		2	X
WS-004 (0.5-1.0) 050114	5/1/14	1220	X		2	X

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)
NJ Reduced
Other

EDD (circle if required)

Locus EIM (default)
Other

Relinquished by	Date	Time	Received by	Date	Time
DTC	5/1/14		UPS		

9

Relinquished by Commercial Carrier: UPS X | FedEx | Other

Received by: [signature] | Date: 5.2.14 | Time: 945

Temperature Upon Receipt: 0.5 °C

Custody Seals Intact? Yes / No

Client: ExxonMobil

Mayflower Pipeline

Delivery and Receipt Information

Delivery Method:	UPS	Arrival Timestamp:	05/02/2014 9:45
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	a		

Arrival Condition Summary

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

Unpacked by Brandy Barclay (2299) at 11:12 on 05/02/2014

Samples Chilled Details: Mayflower Pipeline

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	Samples Collected Same Day as Receipt?	Elevated Temp?
1	DT146	0.5	DT	Wet	Y	Bagged	N	N

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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