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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600 Highlands Ranch CO 80129

Lancaster Labs (LL) #

November 21, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 11/08/2013 Group Number: 1432498 SDG: PEM61 PO Number: B0086003.1301 State of Sample Origin: AR

Client Sample Description
WS-008(Surface)110613 Grab Surface Water
WS-015(1.5-2.0)110613 Grab Surface Water
WS-015(3.5-4.0)110613 Grab Surface Water
WS-021(Surface)110613 Grab Surface Water
WS-009(Surface)110613 Grab Surface Water
WS-004(0.5-1.0)110613 Grab Surface Water
WS-EB-109-110613 Grab Water
WS-014(1.5-2.0)110713 Grab Surface Water
WS-014(5.5-6.0)110713 Grab Surface Water
WS-012(1.5-2.0)110713 Grab Surface Water
WS-012(5.0-5.5)110713 Grab Surface Water
WS-010(1.5-2.0)110713 Grab Surface Water
WS-010(3.5-4.0)110713 Grab Surface Water
WS-006(0.5-1.0)110713 Grab Surface Water
WS-006(0.5-1.0)110713MS Grab Surface Water
WS-006(0.5-1.0)110713MSD Grab Surface Water
WS-011(1.5-2.0)110713 Grab Surface Water
WS-011(5.0-5.5)110713 Grab Surface Water
WS-020(Surface)110713 Grab Surface Water
WS-007(0.5-1.0)110713 Grab Surface Water
WS-001(0.5-1.0)110713 Grab Surface Water
WS-EB-110-110713 Grab Water
DUP-WS-111-110713 Grab Surface Water

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

ELECTRONIC ARCADIS

Attn: Stephen Barrick





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COPY TO ELECTRONIC ARCADIS COPY TO ELECTRONIC ExxonMobil COPY TO ARCADIS ELECTRONIC COPY TO ARCADIS ELECTRONIC COPY TO ELECTRONIC ExxonMobil COPY TO ELECTRONIC ExxonMobil COPY TO

Attn: Lyndi Mott Attn: Michael J. Firth Attn: Emily Leamer Attn: Rhiannon Parmalee Attn: Michael L Sixsmith Attn: Julie Foster

Respectfully Submitted,

Katherine a. Klinefelter

Katherine A. Klinefelter Principal Specialist

(717) 556-7256

🔅 eurofins

Lancaster Laboratories Environmental

Project Name: Mayflower, AR Pipeline Incident LLI Group #: 1432498

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

<u>sample #s: 7269588, 7269589, 7269590, 7269591, 7269592, 7269594</u> The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

<u>Sample #s: 7269593</u>

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis. 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 #: 13313WAC026 (Sample number(s): 7269588-7269594)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7269593



Analysis Report

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Sample	Description:	WS-008(Surface)110613	Grab	Surface	Water	LL	Sample	#	ww	7269588	
		Mayflower, AR				\mathbf{LL}	Group	#	143	2498	
		Pipeline Incident				Acc	ount	#	147	39	

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Project Name: Mayflower, AR Pipeline Incident

Collected:	11/06/2013	09:10	by CP

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

06008 SDG#: PEM61-01

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.	0.013	0.063	1
08357	Acenaphthylene	208-96-8	N.D.	0.013	0.063	1
08357	Anthracene	120-12-7	N.D.	0.013	0.063	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.013	0.063	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.013	0.063	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.013	0.063	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.013	0.063	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.013	0.063	1
08357	Chrysene	218-01-9	N.D.	0.013	0.063	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.013	0.063	1
08357	Fluoranthene	206-44-0	N.D.	0.013	0.063	1
08357	Fluorene	86-73-7	N.D.	0.013	0.063	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.013	0.063	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.013	0.063	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.013	0.063	1
08357	Naphthalene	91-20-3	N.D.	0.038	0.063	1
08357	Phenanthrene	85-01-8	N.D.	0.038	0.063	1
08357	Pyrene	129-00-0	N.D.	0.013	0.063	1
The	laboratory did not receive su	fficient sample vo	lume to perform			

the method QC requirement for MS/MSD or MS/DUP analysis.

General Sample Comments

		Labora	tory Sa	ample Analys	ls Record		
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13313WAC026	11/15/2013 08:3	6 Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13313WAC026	11/10/2013 05:3	0 Nicholas W Shroye	r 1



Analysis Report

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Sample	Description:	WS-015(1.5-2.0)110613 G	rab S	Surface	Water	LL	Sample	#	ww	7269589	
		Mayflower, AR				LL	Group	#	143	2498	
		Pipeline Incident				Aco	count	#	147	39	

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Project Name: Mayflower, AR Pipeline Incident

Collected:	11/06/2013	10:00	by CP
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

06151 SDG#: PEM61-02

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

the method QC requirement for MS/MSD or MS/DUP analysis.

General Sample Comments

		Labora	tory Sa	ample Analysi	s Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
							Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13313WAC026	11/15/2013 09:06	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13313WAC026	11/10/2013 05:30	Nicholas W Shroye	r 1



Analysis Report

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Sample	Description:	WS-015(3.5-4.0)110613	Frab	Surface	Water	LL	Sample	#	WW 72	269590	
		Mayflower, AR				\mathbf{LL}	Group	#	14324	498	
		Pipeline Incident				Acc	count	#	14739	9	

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Project Name: Mayflower, AR Pipeline Incident

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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

06152 SDG#: PEM61-03

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	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 sub	fficient sample vo	lume to perform			

the method QC requirement for MS/MSD or MS/DUP analysis.

General Sample Comments

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim		Analyst	Dilution Factor			
								Factor			
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13313WAC026	11/15/2013	09:35	Brian K Graham	1			
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13313WAC026	11/10/2013	05:30	Nicholas W Shroyer	1			



Analysis Report

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Sample	Description:	WS-021(Surface)110613	Grab	Surface	Water	LГ	Sample	#	ww	7269591	
		Mayflower, AR				$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident				Aco	count	#	147	39	

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Project Name: Mayflower, AR Pipeline Incident

Collected:	11/06	/2013	11:30	by	СР	
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

06021 SDG#: PEM61-04

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.	0.011	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	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	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	N.D.	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	N.D.	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	N.D.	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	laboratory did not receive su	fficient sample vo	lume to perform			

the method QC requirement for MS/MSD or MS/DUP analysis.

General Sample Comments

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
	PAHs in waters by SIM	SW-846 8270C SIM	1	13313WAC026	11/15/2013 10:04	Brian K Graham	1			
	BNA Water Extraction (SIM)	SW-846 3510C	1	13313WAC026	11/10/2013 05:30	Nicholas W Shroyer	1			



Analysis Report

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Sample	Description:	WS-009(Surface)110613	Grab	Surface	Water	LL	Sample	#	ww	7269592	:
		Mayflower, AR				$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident				Acc	count	#	147	39	

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Project Name: Mayflower, AR Pipeline Incident

Collected:	11/06/2013	11:40	by CP

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

06009 SDG#: PEM61-05

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.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.058	1
08357	Naphthalene	91-20-3	N.D.	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	0.064	0.012	0.058	1
The	laboratory did not receive su	fficient sample vo	lume to perform			

the method QC requirement for MS/MSD or MS/DUP analysis.

General Sample Comments

	Laboratory Sample Analysis Record										
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution				
No.					Date and Time		Factor				
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13313WAC026	11/15/2013 10:34	Brian K Graham	1				
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13313WAC026	11/10/2013 05:30	Nicholas W Shroye:	r 1				



Analysis Report

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Sample	Description:	WS-004(0.5-1.0)110613	Grab	Surface	Water	LГ	Sample	#	ww	7269593	3
		Mayflower, AR				$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident				Aco	count	#	147	39	

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Project Name: Mayflower, AR Pipeline Incident

Collected:	11/06/2013	11:50	by CP	
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

06004 SDG#: PEM61-06

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	laboratory did not receive sub	fficient sample vo	lume to perform			

the method QC requirement for MS/MSD or MS/DUP analysis.

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.

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	13313WAC026	11/15/2013 11:03	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13313WAC026	11/10/2013 05:30	Nicholas W Shroyer	1



Analysis Report

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Sample Description:	WS-EB-109-110613 Grab Water	LL Sample	#	WW 7269594
	Mayflower, AR	LL Group	#	1432498
	Pipeline Incident	Account	#	14739

Project Name: Mayflower, AR Pipeline Incident

Collected:	11,	06	/2013	12:20	bv	CP

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

06109 SDG#: PEM61-07EB

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	laboratory did not receive su	fficient sample vo	olume to perform			

the method QC requirement for MS/MSD or MS/DUP analysis.

General Sample Comments

	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	13313WAC026	11/15/2013 11:32	Brian K Graham	1		
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13313WAC026	11/10/2013 05:30	Nicholas W Shroyer	r 1		



Analysis Report

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

Sample	Description:	WS-014(1.5-2.0)110713 Gr	ab Surface	Water	LГ	Sample	#	ww	7269595	
		Mayflower, AR			$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident			Acc	ount	#	147	39	

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2013 08:50	by CP	ExxonMobil c/o Arcadis
		630 Plaza Drive, Suite 600

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07141 SDG#: PEM61-08

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	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	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	N.D.	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	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	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

General Sample Comments

Laboratory	Sample	Analysis	Record
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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	13314WAC026	11/14/2013 09:10	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-014(5.5-6.0)110713 G	rab Sur	face W	Water	LL	Sample	#	ww	7269596	5
		Mayflower, AR				LГ	Group	#	143	2498	
		Pipeline Incident				Aco	count	#	147	39	

Project Name: Mayflower, AR Pipeline Incident

Collected: 12	1/07/2013	09:00	by CP	ExxonMobil c/o Arcadis
				630 Plaza Drive, Suite 600
Submitted: 11	1/08/2013	09:25		Highlands Ranch CO 80129

Sı Reported: 11/21/2013 10:27

07142 SDG#: PEM61-09

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	0.011 J	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

General Sample Comments

Laboratory	Sample	Analysis	Record
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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	13314WAC026	11/14/2013 09:39	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample Descript	ion: WS-012(1.5-2.0)110713 Grab Surface Water	LL Sample # WW 726959 7
	Mayflower, AR	LL Group # 1432498
	Pipeline Incident	Account # 14739

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2013 09:10 by CP	Collected:	11/07/2013	09:10	by CP
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07121 SDG#: PEM61-10

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

General Sample Comments

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	13314WAC026	11/14/2013 10:09	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample D	escription:	WS-012(5.0-5.5)110713	Grab	Surface	Water	LL	Sample	#	ww	7269598	3
		Mayflower, AR				LL	Group	#	143	2498	
		Pipeline Incident				Ac	count	#	147	39	

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	09:20	by CP

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07122 SDG#: PEM61-11

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	0.011 J	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

General Sample Comments

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	13314WAC026	11/14/2013 10:38	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-010(1.5-2.0)110713 G	Fab	Surface	Water	$\mathbf{L}\mathbf{L}$	Sample	#	ww	7269599	
		Mayflower, AR				$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident				Aco	count	#	147	39	

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	09:30	by CP	

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07101 SDG#: PEM61-12

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

General Sample Comments

Laboratory Sample Analysis Recon	Laboratorv	Sample	Analvsis	Record
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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	13314WAC026	11/14/2013 11:07	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-010(3.5-4.0)110713 Gr	ab Su	Irface N	Water	\mathbf{LL}	Sample	#	ww	7269600	1
		Mayflower, AR				LL	Group	#	143	2498	
		Pipeline Incident				Acc	ount	#	147	39	

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	09:40	by CP	ExxonMobil c/o Arcadis
				630 Plaza Drive, Suite 600
Submitted:	11/08/2013	09:25		Highlands Ranch CO 80129

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07102 SDG#: PEM61-13

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

General Sample Comments

Laboratory Sampl	e Analysis Record
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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	13314WAC026	11/14/2013 11:36	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-006(0.5-1.0)110713 G	rab Su	rface W	Water	\mathbf{LL}	Sample	#	ww	7269601	
		Mayflower, AR				LL	Group	#	143	2498	
		Pipeline Incident				Acc	ount	#	147	39	

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	09:50	by CP	ExxonMobil c/o Arcadis
				630 Plaza Drive, Suite 600
Submitted:	11/08/2013	09:25		Highlands Ranch CO 80129
Reported:	11/21/2013	10:27		

07006 SDG#: PEM61-14BKG

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

General Sample Comments

Laboratory Sampl	e Analysis Record
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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	13314WAC026	11/14/2013 05	5:18	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21	:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-006(0.5-1.0)110713MS	Grab	Surface	Water	LL	Sample	#	ww	7269602	1
		Mayflower, AR				$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident				Acc	count	#	147	39	

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	09:50	by CP	ExxonMobil c/o Arcadis
				630 Plaza Drive, Suite 600
Submitted:	11/08/2013	09:25		Highlands Ranch CO 80129
Reported:	11/21/2013	10:27		

07006 SDG#: PEM61-14MS

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	1.1	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.2	0.010	0.052	1
08357	Anthracene	120-12-7	0.96	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.73	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	1.0	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.96	0.010	0.052	1
08357	Chrysene	218-01-9	0.96	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	1.0	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.96	0.010	0.052	1
08357	Fluorene	86-73-7	1.1	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.1	0.031	0.052	1
08357	Pyrene	129-00-0	1.0	0.010	0.052	1

General Sample Comments

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	13314WAC026	11/14/2013 05:47	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-006(0.5-1.0)110713MSD	Grab	Surface	Water	\mathbf{LL}	Sample	#	ww	7269603	
		Mayflower, AR				\mathbf{LL}	Group	#	143	2498	
		Pipeline Incident				Acc	count	#	147	39	

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	09:50	by CP	ExxonMobil c/o Arcadis
				630 Plaza Drive, Suite 600
Submitted:	11/08/2013	09:25		Highlands Ranch CO 80129
Reported:	11/21/2013	10:27		

07006 SDG#: PEM61-14MSD

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	1.1	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.052	1
08357	Anthracene	120-12-7	0.99	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.73	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.96	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.96	0.010	0.052	1
08357	Chrysene	218-01-9	0.97	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.97	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.052	1
08357	Fluorene	86-73-7	1.1	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.95	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.3	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.1	0.031	0.052	1
08357	Pyrene	129-00-0	1.0	0.010	0.052	1

General Sample Comments

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	13314WAC026	11/14/2013 06:16	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-011(1.5-2.0)110713 G	rab	Surface	Water	LL	Sample	#	ww	7269604	
		Mayflower, AR				$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident				Aco	count	#	147	39	

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	10:40	by CP
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07111 SDG#: PEM61-15

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

General Sample Comments

Laboratory S	Sample	Analysis	Record
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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	13314WAC026	11/14/2013 12:05	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-011(5.0-5.5)110713 G	rab Sur	face W	Water	\mathbf{LL}	Sample	#	ww	7269605	
		Mayflower, AR				LL	Group	#	143	2498	
		Pipeline Incident				Acc	ount	#	147	39	

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/0	7/2013 10:50	by CP
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07112 SDG#: PEM61-16

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

General Sample Comments

Laboratory	Sample	Analysis	Record
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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	13314WAC026	11/14/2013 12:34	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-020(Surface)110713 Gra	b Surface	Water	LL	Sample	#	ww	7269606	
		Mayflower, AR			\mathbf{LL}	Group	#	143	2498	
		Pipeline Incident			Acc	ount	#	147	39	

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2013 11:50	by CP	ExxonMobil c/o Arcadis
		630 Plaza Drive, Suite 600
Submitted: 11/08/2013 09:25		Highlands Ranch CO 80129

07020 SDG#: PEM61-17

Reported: 11/21/2013 10:27

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	0.013 J	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

General Sample Comments

Laboratory	Sample	Analysis	Record
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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	13314WAC026	11/15/2013 14:56	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-007(0.5-1.0)110713	Grab	Surface	Water	LГ	Sample	#	WW	7269603	7
		Mayflower, AR				$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident				Aco	count	#	147	39	

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected:	11/07/2013	12:10	by CP	
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07007 SDG#: PEM61-18

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	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1

General Sample Comments

Laboratory	Sample	Analysis	Record
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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	13314WAC026	11/16/2013 08:49	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample	Description:	WS-001(0.5-1.0)110713 Gr	ab Surface	Water	LL	Sample	#	ww	7269608	\$
		Mayflower, AR			$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incident			Acc	ount	#	147	39	

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/201	3 12:20	by CP
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07001 SDG#: PEM61-19

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	0.011 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	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	0.012 J	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	0.011 J	0.010	0.052	1

General Sample Comments

Laboratory S	Sample	Analysis	Record
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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	13314WAC026	11/16/2013 09:18	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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

Sample Description:	WS-EB-110-110713 Grab W	Water	\mathbf{LL}	Sample	#	WW 7269609
	Mayflower, AR		\mathbf{LL}	Group	#	1432498
	Pipeline Incident		Acc	ount	#	14739

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2013 12:30) by CP
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Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

07110 SDG#: PEM61-20EB

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	0.011 J	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

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	13314WAC026	11/16/2013 09:47	Brian K Graham	1	
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroye:	r 1	



Analysis Report

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

Sample	Description:	DUP-WS-111-110	/13 Grab	Surface	Water	r	$\mathbf{L}\mathbf{L}$	Sample	#	WW	7269610)
		Mayflower, AR					$\mathbf{L}\mathbf{L}$	Group	#	143	2498	
		Pipeline Incid	ent				Acc	count	#	147	39	

ExxonMobil c/o Arcadis 630 Plaza Drive, Suite 600

Highlands Ranch CO 80129

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2013 by CP

Submitted: 11/08/2013 09:25 Reported: 11/21/2013 10:27

D-111 SDG#: PEM61-21FD*

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	0.011 J	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

General Sample Comments

Laboratory	Sample	Analysis	Record
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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	13314WAC026	11/16/2013 10:17	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13314WAC026	11/11/2013 21:00	Nicholas W Shroyer	1



Analysis Report

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Page 1 of 3

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis Reported: 11/21/13 at 10:27 AM Group Number: 1432498

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>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 13313WAC026		mber(s): 7							
Acenaphthene	N.D.	0.010	0.050	ug/l	110	110	77-118	0	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	115	115	80-123	0	30
Anthracene	N.D.	0.010	0.050	ug/l	113	114	78-123	1	30
Benzo(a) anthracene	N.D.	0.010	0.050	ug/l	114	107	73-127	6	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	113	111	72-120	1	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	115	121	79-136	5	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	120	120	64-130	1	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	127	119	73-131	7	30
Chrysene	N.D.	0.010	0.050	ug/l	110	112	76-125	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	112	110	58-131	2	30
Fluoranthene	N.D.	0.010	0.050	ug/l	112	112	79-124	1	30
Fluorene	N.D.	0.010	0.050	ug/l	113	114	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	114	111	62-130	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	121	122	80-126	0	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	122	120	81-124	1	30
Naphthalene	N.D.	0.030	0.050	ug/l	110	110	75-120	0	30
Phenanthrene	N.D.	0.030	0.050	ug/l	104	105	75-120	1	30
Pyrene	N.D.	0.010	0.050	ug/l	105	106	71-130	0	30
Batch number: 13314WAC026	Sample nu	mber(s): 7	269595-726	59610					
Acenaphthene	N.D.	0.010	0.050	ug/l	101		77-118		
Acenaphthylene	N.D.	0.010	0.050	ug/l	108		80-123		
Anthracene	N.D.	0.010	0.050	uq/l	110		78-123		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	111		73-127		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	105		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	111		79-136		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	114		64-130		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	117		73-131		
Chrysene	N.D.	0.010	0.050	ug/l	102		76-125		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	112		58-131		
Fluoranthene	N.D.	0.010	0.050	ug/l	106		79-124		
Fluorene	N.D.	0.010	0.050	ug/l	106		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	111		62-130		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	115		80-126		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	114		81-124		
Naphthalene	N.D.	0.030	0.050	ug/l	104		75-120		
Phenanthrene	N.D.	0.030	0.050	ug/l	99		75-120		
Pyrene	N.D.	0.010	0.050	ug/l	104		71-130		

Sample Matrix Quality Control

*- 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.





Group Number: 1432498

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Page 2 of 3

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis Reported: 11/21/13 at 10:27 AM 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
<u>Analysis Name</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	RPD	<u>Max</u>
Batch number: 13314WAC026	Sample	number(s)	: 7269595	5-72696	10 UNSE	PK: 7269601			
Acenaphthene	102	101	47-136	1	30				
Acenaphthylene	112	110	33-146	1	30				
Anthracene	92	96	69-119	4	30				
Benzo(a) anthracene	100	101	37-150	1	30				
Benzo(a)pyrene	71	70	64-123	0	30				
Benzo(b)fluoranthene	96	97	33-152	1	30				
Benzo(q,h,i)perylene	96	92	36-138	4	30				
Benzo(k)fluoranthene	93	92	31-142	0	30				
Chrysene	93	94	34-135	1	30				
Dibenz(a,h)anthracene	99	94	17-134	6	30				
Fluoranthene	93	100	39-147	7	30				
Fluorene	110	109	38-149	1	30				
Indeno(1,2,3-cd)pyrene	96	92	29-143	4	30				
1-Methylnaphthalene	117	121	49-152	3	30				
2-Methylnaphthalene	114	119	51-146	4	30				
Naphthalene	106	110	58-131	3	30				
Phenanthrene	102	105	48-140	2	30				
Pyrene	97	100	59-125	3	30				
1,1000	2.	200	55 125	5	50				

. . .

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.

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene- d10	
269588	108	103	107	
269589	107	97	115	
269590	106	98	113	
269591	105	90	111	
269592	89	92	96	
269593	73	58*	84	
269594	109	109	115	
lank	72	75	75	
JCS	109	123	122	
JCSD	107	120	119	
imits:	44-137	62-141	51-136	
	Name: PAHs in w mber: 13314WAC02			
	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene- d10	
269595	104	102	110	

*- Outside of specification

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

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

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



Analysis Report

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Page 3 of 3

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis Reported: 11/21/13 at 10:27 AM Group Number: 1432498

1			Surrogate	Quality	Control
7269596	107	103	113		
7269597	106	100	113		
7269598	94	89	110		
7269599	95	62	104		
7269600	94	89	111		
7269601	97	90	112		
7269602	95	93	116		
7269603	99	91	119		
7269604	98	68	110		
7269605	95	75	102		
7269606	99	94	105		
7269607	89	87	102		
7269608	103	93	116		
7269609	109	112	111		
7269610	101	93	114		
Blank	76	84	78		
LCS	106	119	117		
MS	95	93	116		
MSD	99	91	119		
Limits:	44-137	62-141	51-136		

*- 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.

ExxonMo	obil Analysis Request/Chain of Custody
	For Eurofins Lancaster Laboratories Environmental use only

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Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1432498 Sample # 7269588 - 610 Instructions on reverse side correspond with circled purphers

struct	ions o	n reverse	side	correspond	l with	circled	numbers.

1 Client Information	4) Matrix		K	5	Analys	es Requested		000#		
Facility #/SID Mayflower Pipeline Mcident							rvation Code		SCR#:		
				ŀ	_					Preservation	n Codes
Maytower, AR		Ground							H = 1		= Thiosulfate
ExxonMobil PM V / Cost Center/AFE	╶┫┌╴		ľ							•	= NaOH = Other
Scott Bushroe	1	Ground							6	Remar	10 10
Consultant/Office	edimer			lers	MIS					Kennar	NO
Steve Barrick 919-302-6799	ီ	Potable NPDES	Ą	of Containers	WISOL 7						
Clement Papatro/Ryan Lewis	Composite Soil]		å [عن						
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Sample IdentificationDateTime 5 WS - 008 (Suc face) 06 3 -6-20 309 0 X	<u>0 0</u>					┝╌┝╼┝					
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W = 015(5,5-10)10013 $U = 0.0000$		+	-		$\hat{\mathbf{x}}$	+ $+$ $+$					
WS-009 (Surface) 110613 11-6-2013 1140 X			-	2	CH-	┼╾┼╶╋		_			
WS-004 (0.5-1.0)10613 11-6-2013 1150 X			_	$\frac{2}{2}$	+	╉╌╊╌┠	╺╋╴┨╺╉╶┠				
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WS-012 (5.0-5.5) 110713 11-7-2013 0920 X	+	+ & +		2	<u> </u>						
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Other					•					lies	INU

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ExxonMobil Analysis Request/Chain of Custody

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only Group # <u>1432-498</u> Sample # <u>7269588-6</u>/D Acct. # 147 39

tructions on reverse s	side correspond	with circled numbers.
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1 Client Information		4	Matrix			5	Anal	vses	Req	uested	d					
Facility #/SID No Color Reality Locida 2		Г								Code			SCR#	k		
Site Address		4												Preservation	1 Codes	
Mauflower, AR			Ground												= Thiosulfate	;
ExxonMobil PM CI / Cost Center/AFE	· · ·	┨□	Ground Surface											•	= NaOH = Other	
Scott Bushroe			Su Gr										6	Remar		
Consultant/Office ARCADIS		Sediment			ners	MS								• - • - • - • - •		
Consultant PM Stor Bachck 919-302-679°			Potable	Air	of Containers	2									,	
alement Kapatio / Kuan Lewis	Grab © Composite				#	8										
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Kathy Klinefelter

From: Kathy Klinefelter

Sent: Friday, November 08, 2013 3:05 PM

To: 'Parmelee, Rhiannon'; Lewis, Ryan; Kull, Valerie; Mott, Lyndi; Quartey-Papafio, Clement; Chandler, Jennifer; SA Env Entry; Rachel L. Kreamer; Capria, Dennis; Brewer, Stacey; McKenzie, Mary

Cc: Molina, Joe; Lipka, Shelby; Pritchard, Jamie

Subject: RE: Mayflower Surface Water Weekly Sampling COCs and Tracking Numbers

Attachments: Surface Water COC Page 1.jpeg; Surface Water COC Page 2.jpeg; UPS Tracking Numbers.jpeg

For the site specific QC, only duplicate volume was received by the lab. Going forward, please submit triplicate volume. For PAHs SIM, that is 2 bottles each for the parent, MS and MSD samples for a total of 6 bottles instead of 4. Thanks.

From: Parmelee, Rhiannon [mailto:Rhiannon.Parmelee@arcadis-us.com]
Sent: Friday, November 08, 2013 10:12 AM
To: Lewis, Ryan; Kull, Valerie; Mott, Lyndi; Quartey-Papafio, Clement; Chandler, Jennifer; SA Env Entry; Rachel L. Kreamer; Capria, Dennis; Brewer, Stacey; McKenzie, Mary; Kathy Klinefelter
Cc: Molina, Joe; Lipka, Shelby; Pritchard, Jamie
Subject: RE: Mayflower Surface Water Weekly Sampling COCs and Tracking Numbers

Adding Kathy Klinefelter to this email.

From: Lewis, Ryan

Sent: Thursday, November 07, 2013 6:46 PM
To: Kull, Valerie; Mott, Lyndi; Quartey-Papafio, Clement; Chandler, Jennifer; SAEnvEntry@lancasterlabs.com; RKreamer@lancasterlabs.com; Capria, Dennis; Brewer, Stacey; McKenzie, Mary
Cc: Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie
Subject: Mayflower Surface Water Weekly Sampling COCs and Tracking Numbers

Hello All,

Included are the COC's and tracking numbers for this week's surface water sampling event.

Thanks,

Ryan B Lewis | Geologist 1 | ryan.lewis@arcadis-us.com

ARCADIS U.S., Inc. | 111 SW Columbia Street, Suite 670 | Portland, OR 97201 T: 503 220 8201 ext. 1101 | M: 503 863 9060 www.arcadis-us.com

ARCADIS, Imagine the result Please consider the environment before printing this email.

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Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: 232 Date/Time: 11/8/3 1256

Issued by Dept. 6042 Management

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Lancaster Laboratories Environmental

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)
mL	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 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 ≥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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