Analysis Report

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

ANALYTICAL RESULTS

Prepared by: Prepared for:

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

November 20, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 11/08/2014 Group Number: 1517242 SDG: PEO40 PO Number: 4410263810 Release Number: SIXSMITH State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-007(0.5-1.0)110714 Grab Surface Water	7668723
WS-009(Surface)110714 Grab Surface Water	7668724
WS-001(0.5-1.0)110714 Grab Surface Water	7668725
WS-021(Surface)110714 Grab Surface Water	7668726
WS-004(0.5-1.0)110714 Grab Surface Water	7668727

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

ELECTRONIC	ARCADIS	Attn: Stephen Barrick
COPY TO		
ELECTRONIC	ARCADIS	Attn: Lyndi Mott
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Michael J. Firth
COPY TO		
ELECTRONIC	ARCADIS	Attn: Emily Leamer
COPY TO		
ELECTRONIC	ARCADIS	Attn: Rhiannon Parmelee
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
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ELECTRONIC	ExxonMobil	Attn: Julie Foster
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ELECTRONIC	ARCADIS	Attn: Sonal Patil
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ELECTRONIC	ARCADIS	Attn: Kim Abbott
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Analysis Report

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Respectfully Submitted,

Katherine A. Klinefelter Principal Specialist

Katherine a. Klinefelter

(717) 556-7256



Project Name: Mayflower, AR Pipeline Incident LL Group #: 1517242

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

<u>Sample #s: 7668724, 7668725, 7668726, 7668727</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: 7668723</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 #: 14315WAF026 (Sample number(s): 7668723-7668727)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7668723



Analysis Report

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Sample Description: WS-007(0.5-1.0)110714 Grab Surface Water

LL Sample # WW 7668723 S20135565 Mayflower, AR LL Group # 1517242 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2014 14:45 by ZP ExxonMobil PO Box 4592

Submitted: 11/08/2014 08:45 Houston TX 77210-4592

Reported: 11/20/2014 13:50

P4001 SDG#: PEO40-01

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	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	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.061	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform

the method QC requirement for ${\rm MS/MSD}$ or ${\rm MS/DUP}$ 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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14315WAF026	11/14/2014	23:59	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14315WAF026	11/12/2014	20:15		1



Analysis Report

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Sample Description: WS-009(Surface)110714 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7668724

LL Group # 1517242 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2014 14:50 by ZP ExxonMobil

PO Box 4592

Houston TX 77210-4592

Submitted: 11/08/2014 08:45 Reported: 11/20/2014 13:50

P4002 SDG#: PEO40-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b) fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.060	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.060	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
The	laboratory did not receive sur	fficient sample vo	lume to perform			

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

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14315WAF026	11/15/2014	00:27	Catherine E	1
							Bachman	
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14315WAF026	11/12/2014	20:15	Nicholas W Shroyer	1



Analysis Report

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Sample Description: WS-001(0.5-1.0)110714 Grab Surface Water

LL Sample # WW 7668725 LL Group # 1517242 S20135565 Mayflower, AR Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2014 15:00 by ZP ExxonMobil PO Box 4592

Submitted: 11/08/2014 08:45 Houston TX 77210-4592

Reported: 11/20/2014 13:50

P4003 SDG#: PEO40-03

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.	0.031	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.061	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The	laboratory did not receive su	fficient sample vo	lume to perform			

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.

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

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14315WAF026	11/15/2014	00:54	Catherine E	1
							Bachman	
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14315WAF026	11/12/2014	20:15	Nicholas W Shroyer	1



Analysis Report

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Sample Description: WS-021(Surface)110714 Grab Surface Water

LL Sample # WW 7668726 S20135565 Mayflower, AR LL Group # 1517242 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2014 15:05 by ZP ExxonMobil

PO Box 4592

Houston TX 77210-4592

Submitted: 11/08/2014 08:45 Reported: 11/20/2014 13:50

P4004 SDG#: PEO40-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.061	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Tim	ne		Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14315WAF026	11/15/2014	01:22	Catherine E	1
							Bachman	
10470	BNA Water Extraction	SW-846 3510C	1	14315WAF026	11/12/2014	20:15	Nicholas W Shroyer	1



Analysis Report

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Sample Description: WS-004(0.5-1.0)110714 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7668727

LL Group # 1517242 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 11/07/2014 15:10 by ZP ExxonMobil

PO Box 4592

Houston TX 77210-4592

Submitted: 11/08/2014 08:45 Reported: 11/20/2014 13:50

P4005 SDG#: PEO40-05

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	0.051	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	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.061	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	laboratory did not receive suf method QC requirement for MS/N					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti		Analyst	Dilution
No.			_					Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14315WAF026	11/15/2014	01:49	Catherine E	1
							Bachman	
10470	BNA Water Extraction	SW-846 3510C	1	14315WAF026	11/12/2014	20:15	Nicholas W Shroyer	1
	(SIM)							



Analysis Report

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1517242

Reported: 11/20/14 at 01:50 PM

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL**	Blank <u>LOO</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD <u>Max</u>
Batch number: 14315WAF026	Sample num	nber(s): 7	668723-766	8727					
Acenaphthene	N.D.	0.010	0.050	ug/l	113	114	82-126	1	30
Acenaphthylene	N.D.	0.010	0.050	uq/l	97	97	72-124	1	30
Anthracene	N.D.	0.010	0.050	ug/l	104	106	83-125	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100	103	79-122	3	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	98	98	72-126	1	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	104	102	79-136	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	81	84	59-137	3	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	94	99	72-129	5	30
Chrysene	N.D.	0.010	0.050	ug/l	101	104	77-122	3	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	62	63	42-143	1	30
Fluoranthene	N.D.	0.010	0.050	ug/l	104	107	76-121	3	30
Fluorene	N.D.	0.010	0.050	ug/l	99	100	82-119	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	74	75	53-136	0	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	95	95	75-117	0	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	92	93	68-124	1	30
Naphthalene	N.D.	0.030	0.060	ug/l	91	93	78-117	1	30
Phenanthrene	N.D.	0.030	0.060	ug/l	98	101	83-116	2	30
Pyrene	N.D.	0.010	0.050	ug/l	90	94	70-124	4	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: 14315WAF026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-
			d10
7668723	72	31*	76
7668724	90	53	85
7668725	98	66	91
7668726	97	61	88
7668727	88	57	82
Blank	106	103	87
LCS	109	108	98
LCSD	112	108	99
Limits:	56-134	36-156	59-132

^{*-} Outside of specification

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

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

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



Analysis Report

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1517242

Reported: 11/20/14 at 01:50 PM

Surrogate 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.

ExxonMobil Analysis Request/Chain of Custody

🗱 eurofins

Lancaster Laboratories Environmental Acct. # 14739 For Eurofins, Lancaster Laboratories Environmental use only
Group # 15174 Sample # 16657337
Instructions on reverse side correspond with circled numbers.

1) Client Info	rmation			(4	1)	Matrix			(5)		Anal						SCR	# ·		
Facility #/SID	g										Pre	serva	tion (Code						
May apus Pipe lin /no	ident																	Preservati	on Code	es
Site Addre∜s	า					Ground Surface											B .		T = Thios	
May trous As	·'				_	_g													B = NaOl	
ExxonMobil PM	Cost Center/AFE				⊿ ∤	Ground Surfaçe			5										O = Othe	r
Mille SIX SMIPL					Ħ	ତି ଉ			SIM							ı	6	Rema	arks	
Consultant/Office Arcad. 3				:	Sediment			ers	0											
Consultant PM	Consultant Phone #	ŧ .			Se	<u>e</u> 8	Air	tair	1											
Stere Banrele Sampler				a		Potable NPDES		of Containers	23											
Love Poures			3	Composite	\exists				H											
2)	Colle		Grab	Ĕ:	=	Water		Total#	4											
Sample Identification	Date	Time	ত	ပို	Soil	Š	ē	유	(A)											
ws-007(0,5-1,0)110:114	11-7-14	1445	X			X		2	X											
WS-009 (Surtard 1107)4	11.7.14	1450	X			×		2	$\langle \cdot \rangle$											
W5-001(8)-5-1.0),10714	11.7.14	1500	X			X		2	X											
W5-021 (Gulfaco)10714	11.7.11	1505				X		2	\times											
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Sample Administration Receipt Documentation Log

Doc Log ID:

39341

Group Number(s): 1517242

Client: ExxonMobil

Delivery and Receipt Information

Delivery Method:

UPS

Arrival Timestamp:

11/08/2014 8:45

Number of Packages:

1

Number of Projects:

1

Arrival Condition Summary

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

Yes

Sample Date/Times match COC:

Yes

Custody Seal Intact:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Samples Chilled:

Yes

Total Trip Blank Qty:

0

Paperwork Enclosed:

Yes Yes Air Quality Samples Present:

No

Samples Intact:

No

Missing Samples: Extra Samples:

No

Discrepancy in Container Qty on COC:

Nο

Unpacked by Timothy Cubberley (6520) at 12:21 on 11/08/2014

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler # Thermometer ID DT131 1

Corrected Temp 0.9

Therm. Type DT

Ice Type Wet

Ice Present?

Ice Container Bagged

Elevated Temp? Ν



Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
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 ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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