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

October 03, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/26/2014 Group Number: 1506562 SDG: PEO28 PO Number: 4410181435 Release Number: SIXSMITH State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-007(0.5-1.0)092514 Grab Surface Water	7615675
WS-009(Surface)092514 Grab Surface Water	7615676
WS-001(0.5-1.0)092514 Grab Surface Water	7615677
WS-021(Surface)092514 Grab Surface Water	7615678
WS-004(0.5-1.0)092514 Grab Surface Water	7615679

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

Analysis Report

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

Respectfully Submitted,

Katherine A. Klinefelter Principal Specialist

Katherine a. Klinefelter

(717) 556-7256



Project Name: Mayflower, AR Pipeline Incident LL Group #: 1506562

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: 7615675, 7615676, 7615678, 7615679</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: 7615677</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 #: 14270wAC026 (Sample number(s): 7615675-7615679)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7615677



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)092514 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7615675

LL Group # 1506562 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/25/2014 15:40 by ZP ExxonMobil PO Box 4592

Houston TX 77210-4592

Submitted: 09/26/2014 09:25 Reported: 10/03/2014 12:02

P2801 SDG#: PEO28-01

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	0.011 J	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	0.023 J	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	0.019 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	0.023 J	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	0.064	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.064	1
08357	Pyrene	129-00-0	0.019 J	0.011	0.053	1
	laboratory did not receive suf			1		

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 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	14270WAC026	10/01/2014	10:17	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14270WAC026	09/29/2014	09:10	Jessica M Velez	1



Analysis Report

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

Sample Description: WS-009(Surface)092514 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7615676

LL Group # 1506562 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/25/2014 15:45 by ZP ExxonMobil

PO Box 4592

Houston TX 77210-4592

Submitted: 09/26/2014 09:25 Reported: 10/03/2014 12:02

P2802 SDG#: PEO28-02

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	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b) fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k) fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.065	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.065	1
08357	Pyrene	129-00-0	0.051 J	0.011	0.054	1
The	laboratory did not receive sur					

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 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	14270WAC026	10/01/2014	10:45	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14270WAC026	09/29/2014	09:10	Jessica M Velez	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)092514 Grab Surface Water

LL Sample # WW 7615677 S20135565 Mayflower, AR LL Group # 1506562 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/25/2014 16:00 by ZP ExxonMobil PO Box 4592

Houston TX 77210-4592

Submitted: 09/26/2014 09:25

Reported: 10/03/2014 12:02

P2803 SDG#: PEO28-03

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	0.061	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	14270WAC026	10/01/2014	11:12	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14270WAC026	09/29/2014	09:10	Jessica M Velez	1



Analysis Report

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

Sample Description: WS-021(Surface)092514 Grab Surface Water

S20135565 Mayflower, AR

Pipeline Incident

LL Sample # WW 7615678

LL Group # 1506562 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/25/2014 16:05 by ZP ExxonMobil

PO Box 4592

Houston TX 77210-4592

Submitted: 09/26/2014 09:25 Reported: 10/03/2014 12:02

P2804 SDG#: PEO28-04

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.	0.031	0.062	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.062	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 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	14270WAC026	10/01/2014	11:39	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14270WAC026	09/29/2014	09:10	Jessica M Velez	1



Analysis Report

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

Sample Description: WS-004(0.5-1.0)092514 Grab Surface Water

LL Sample # WW 7615679 S20135565 Mayflower, AR LL Group # 1506562 Pipeline Incident Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/25/2014 16:10 by ZP ExxonMobil PO Box 4592

Submitted: 09/26/2014 09:25 Houston TX 77210-4592

Reported: 10/03/2014 12:02

P2805 SDG#: PEO28-05*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	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	0.063	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.063	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
	laboratory did not receive suf method QC requirement for MS/M					

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 Tim	ne	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14270WAC026	10/01/2014	12:07	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14270WAC026	09/29/2014	09:10	Jessica M Velez	1



Analysis Report

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1506562

Reported: 10/03/14 at 12:02 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: 14270WAC026	Sample num	ber(s): 76	515675-761	.5679					
Acenaphthene	N.D.	0.010	0.050	ug/l	103	105	82-126	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	88	88	72-124	0	30
Anthracene	N.D.	0.010	0.050	ug/l	93	92	83-125	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	97	99	79-122	2	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	92	93	72-126	1	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	101	103	79-136	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	94	93	59-137	1	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	92	93	72-129	1	30
Chrysene	N.D.	0.010	0.050	ug/l	98	100	77-122	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	91	87	42-143	4	30
Fluoranthene	N.D.	0.010	0.050	ug/l	101	102	76-121	1	30
Fluorene	N.D.	0.010	0.050	ug/l	98	99	82-119	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	91	89	53-136	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100	99	75-117	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	97	99	68-124	2	30
Naphthalene	N.D.	0.030	0.060	ug/l	92	93	78-117	0	30
Phenanthrene	N.D.	0.030	0.060	ug/l	91	92	83-116	1	30
Pyrene	N.D.	0.010	0.050	ug/l	93	94	70-124	1	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: 14270WAC026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene- d10
7615675	77	55	77
7615676	82	69	77
7615677	79	32*	76
7615678	76	56	73
7615679	87	69	82
Blank	102	96	83
LCS	101	99	93
LCSD	102	99	93
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

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1506562

Reported: 10/03/14 at 12:02 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

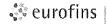
eι	ıro	fi	ns

Lancaster Laboratories Environmental

Acct.#	Ì	4	730

For Eurofins Lancaster Laboratories Environmental use only
Group # 1500500 Sample # 7015015 79
Instructions on reverse side correspond with circled numbers.

1) Client Info	rmation		4	Matrix			5		Analy	/ses	Requ	ıeste	d			SCR#:_	15	97	4/	
Facility #/SID	1 i								Pre	serva	tion (Code				30K#	10	/	//	
Maytlow 1 pelle Incic	dent		_							4						P	reserva	tion C	odes	
Site Address																H = H			hiosulfate	е
ExxonMobil PM	Cost Center/AFE		1—	ace												N = H S = H		B = N		
Facility #/SID May flow Polling Incic Site Address May flow AR ExxonMobil PM Mike Sasanith Consultant/Office	Cost Centen A L			Ground Surface		To V countilly leaders	SIM									5 - n 6	ZERODNIO DE LO COLDENZA	0 = 0 narks		
Consultant/Office			Jen -	"		,,	V									9	1101	naika	•	
Ared: S Consultant PM			Sediment		_	Jers	0								The state of the s					
Consultant PM	Consultant Phone #		ျွန္	9e Si	Air	tair	12													
Steve Barrick	919-302-679			Potable NPDES		Containers	82													
Shere Barrick Sampler Zac Pawers		Grab ©				하														
2)	Collected	Grab	-	Water		Total#	725													
Sample Identification	Date Time		Soil		ö	10														
WS-007(0,5-1.0) 072514	9.25.14 1540	X		X		2	X													
WS-809 (Surface) 092514	9.25.14 1545	X		X		2	X													
WS-00/(0-5-10)0925/4	9.25.14 1600	X		X		Z	X													
WS-021 (Surface) 092514	9-25-14 1605	X		l'X		2	X													
W5-004(0,5-1,0)092514	9.25-14 1610	X	- 7	X		2	X				1.	- 1								
	-70		Ь													13000				
															_					
			1						\mathbb{Z}											
								-/											***************************************	
								7							T					
7) Turnaround Time Requested (TAT)	(please circle)	uished by	M	1-	CHINATE PRINCE	Date	1-01	, , T	ime	- _A	Receiv	ed by	0			[5	Date		Time 400	9
Standard 5 day	4 day	uished by	11/0	nt Gome	WY.	Χ/ ₂	Z8/1	14/	136 ime	0	Zu Receiv	CI	our	1017	<u> </u>	19	1/2	141	400	
	Relind	ulshed by		()		Date G/	•	111	ime 173 (i Pi	Receiv	ed by					Date	_	Time	
72 hour 48 hour	24 hour Reling	uished by	<u> </u>	>		Date	-3/1		ime		Receiv	ed by					Date		Time	
8 Data Package (circle if required) EDD	(circle if required)	•						/			İ									
		uished by Comme	rcial Ca	arrier	***********						Recei	ed by	1 1	7		5	Pate/	1.1	Time	
Type VI (Raw Data) Othe	er	IPS X	F	edEx	_	Ot	her_				4	ري	N		Salari da		1/26/	14	0829	\int
NJ Reduced		Tempe	eratur	e Upon R	eceir	nt F	, 4	۰(<u>.</u>		8	Custo			Inter	-t?	(QV		No	1
Other		ТОПР	natui	o opon it	COCIL	/ L	\		<u> </u>	IN THE STATE OF TH		Ousil	Juy 3	cais i	mac	JL:	Ye	<u> </u>	INC	,



Sample Administration Receipt Documentation Log

Doc Log ID:

31018

Group Number(s): 1506563

Client: EXXONMOBIL

MAYFLOWER

Delivery and Receipt Information

Delivery Method:

<u>UPS</u>

Arrival Timestamp:

09/26/2014 9:25

Number of Packages:

1

Number of Projects:

1

State/Province of Origin:

AR

Arrival Condition Summary

Shipping Container Sealed:

Yes

Total Trip Blank Qty:

0

Custody Seal Present:

Yes

Trip Blank Type:

N/A

Custody Seal Intact:

<u>Yes</u>

Air Quality Samples Present:

No

Samples Chilled:

<u>Yes</u>

Air Quality Flow Controllers Present: Flow Controller Quantity:

<u>N/A</u> 0

Paperwork Enclosed: Samples Intact:

Yes Yes

Air Quality Returns:

N/A

Missing Samples:

No

Extra Samples: Discrepancy in Container Qty on COC:

Νo

No

Sample IDs on COC match Containers:

<u>Yes</u>

Sample Date/Times match COC:

Yes Yes

VOA Vial Headspace ≥ 6mm:

N/A

VOA IDs (\geq 6mm):

N/A

Unpacked by Corey Eshleman (3647) at 10:22 on 09/26/2014

Samples Chilled Details: MAYFLOWER

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler#

Thermometer ID DT121

Corrected Temp 0.4

Therm, Type DT

Wet

Ice Type Ice Present? Ice Container Bagged

Elevated Temp?



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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.