463 West 3600 South
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Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Galen Williams
EarthFax Engineering
7324 So. Union Park Ave., # 100
Midvale, UT 84047
TEL: (801) 561-1555

RE: MP 44.9

Dear Galen Williams: Lab Set ID: 1303395

American West Analytical Laboratories received 4 sample(s) on 3/19/2013 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.03.21 14:32:57 -06'00'

Laboratory Director or designee

Partial Report

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303395-001B
Client Sample ID: Pelican Bay
Collection Date: 3/19/2013 015h
Received Date: 3/19/2013 1125h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 3/21/2013 057h **Extracted:** 3/19/2013 1303h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.190	< 0.190	
2-Methylnaphthalene	91-57-6	0.190	< 0.190	
Acenaphthene	83-32-9	0.190	< 0.190	
Acenaphthylene	208-96-8	0.190	< 0.190	
Anthracene	120-12-7	0.190	< 0.190	
Benz(a)anthracene	56-55-3	0.190	< 0.190	
Benzo(a)pyrene	50-32-8	0.190	**0.362**	
Benzo(b)fluoranthene	205-99-2	0.190	**0.324**	
Benzo(g,h,i)perylene	191-24-2	0.190	< 0.190	
Benzo(k)fluoranthene	207-08-9	0.190	< 0.190	
Chrysene	218-01-9	0.190	< 0.190	
Dibenz(a,h)anthracene	53-70-3	0.190	< 0.190	
Fluoranthene	206-44-0	0.190	< 0.190	
Fluorene	86-73-7	0.190	< 0.190	
Indene	95-13-6	0.190	< 0.190	
Indeno(1,2,3-cd)pyrene	193-39-5	0.190	< 0.190	
Naphthalene	91-20-3	0.190	< 0.190	
Phenanthrene	85-01-8	0.190	< 0.190	
Pyrene	129-00-0	0.190	**0.229**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Partial Report

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ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303395-002B
Client Sample ID: Outside of Boom
Collection Date: 3/19/2013 145h
Received Date: 3/19/2013 1125h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 3/21/2013 124h **Extracted:** 3/19/2013 1303h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.157	< 0.157	
2-Methylnaphthalene	91-57-6	0.157	< 0.157	
Acenaphthene	83-32-9	0.157	< 0.157	
Acenaphthylene	208-96-8	0.157	< 0.157	
Anthracene	120-12-7	0.157	< 0.157	
Benz(a)anthracene	56-55-3	0.157	< 0.157	
Benzo(a)pyrene	50-32-8	0.157	< 0.157	
Benzo(b)fluoranthene	205-99-2	0.157	< 0.157	
Benzo(g,h,i)perylene	191-24-2	0.157	< 0.157	
Benzo(k)fluoranthene	207-08-9	0.157	< 0.157	
Chrysene	218-01-9	0.157	< 0.157	
Dibenz(a,h)anthracene	53-70-3	0.157	< 0.157	
Fluoranthene	206-44-0	0.157	< 0.157	
Fluorene	86-73-7	0.157	< 0.157	
Indene	95-13-6	0.157	< 0.157	
Indeno(1,2,3-cd)pyrene	193-39-5	0.157	< 0.157	
Naphthalene	91-20-3	0.157	< 0.157	
Phenanthrene	85-01-8	0.157	< 0.157	
Pyrene	129-00-0	0.157	< 0.157	

Partial Report

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ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303395-003B
Client Sample ID: Inside of Boom
Collection Date: 3/19/2013 200h
Received Date: 3/19/2013 1125h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 3/21/2013 150h **Extracted:** 3/19/2013 1303h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.172	**0.707**	
2-Methylnaphthalene	91-57-6	0.172	**0.500**	
Acenaphthene	83-32-9	0.172	< 0.172	
Acenaphthylene	208-96-8	0.172	< 0.172	
Anthracene	120-12-7	0.172	< 0.172	
Benz(a)anthracene	56-55-3	0.172	< 0.172	
Benzo(a)pyrene	50-32-8	0.172	< 0.172	
Benzo(b)fluoranthene	205-99-2	0.172	< 0.172	
Benzo(g,h,i)perylene	191-24-2	0.172	< 0.172	
Benzo(k)fluoranthene	207-08-9	0.172	< 0.172	
Chrysene	218-01-9	0.172	< 0.172	
Dibenz(a,h)anthracene	53-70-3	0.172	< 0.172	
Fluoranthene	206-44-0	0.172	< 0.172	
Fluorene	86-73-7	0.172	< 0.172	
Indene	95-13-6	0.172	**0.190**	
Indeno(1,2,3-cd)pyrene	193-39-5	0.172	< 0.172	
Naphthalene	91-20-3	0.172	**0.724**	
Phenanthrene	85-01-8	0.172	< 0.172	
Pyrene	129-00-0	0.172	< 0.172	

Partial Report

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ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303395-004B
Client Sample ID: Between Weir
Collection Date: 3/19/2013 745h
Received Date: 3/19/2013 1125h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 3/21/2013 217h **Extracted:** 3/19/2013 1303h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.175	**2.68**	
2-Methylnaphthalene	91-57-6	0.175	**1.74**	
Acenaphthene	83-32-9	0.175	< 0.175	
Acenaphthylene	208-96-8	0.175	< 0.175	
Anthracene	120-12-7	0.175	< 0.175	
Benz(a)anthracene	56-55-3	0.175	< 0.175	
Benzo(a)pyrene	50-32-8	0.175	< 0.175	
Benzo(b)fluoranthene	205-99-2	0.175	< 0.175	
Benzo(g,h,i)perylene	191-24-2	0.175	< 0.175	
Benzo(k)fluoranthene	207-08-9	0.175	< 0.175	
Chrysene	218-01-9	0.175	< 0.175	
Dibenz(a,h)anthracene	53-70-3	0.175	< 0.175	
Fluoranthene	206-44-0	0.175	< 0.175	
Fluorene	86-73-7	0.175	< 0.175	
Indene	95-13-6	0.175	< 0.175	
Indeno(1,2,3-cd)pyrene	193-39-5	0.175	< 0.175	
Naphthalene	91-20-3	0.175	**1.53**	
Phenanthrene	85-01-8	0.175	< 0.175	
Pyrene	129-00-0	0.175	**0.263**	

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Partial Report

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American West Analytical Laboratories

REVISED 3-20-13 project name changed @ client's request

RUSH

D

WORK ORDER Summary

Work Order: **1303395**

Client: EarthFax Engineering

Due Date: 3/20/2013

Client ID: EAR100

Contact: Galen Williams

Project: **CPL: MP 44.9 / 1468**

QC Level: II

WO Type: Standard

Comments: Next Day Rush / QC2, limited sample volume, use reduced volume to accomodate all analysis; partial reports as results become available, and bill accordingly.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303395-001A	**Pelican Bay**	3/19/2013 0015h	3/19/2013 1125h	**8260-W**	Aqueous	☑	voC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303395-001B				**3510-ORO-PR**		☐	walkin-semi-tph/oro/dro	2
				3510-SVOA-PR		☐	walkin-semi-tph/oro/dro	
				3510-TPH-PR		☐	walkin-semi-tph/oro/dro	
				8015-W-ORO(1L)		☐	walkin-semi-tph/oro/dro	
				8015-W-TPH(1L)		☑	walkin-semi-tph/oro/dro	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
				8270-W		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303395-002A	**Outside of Boom**	3/19/2013 0145h	3/19/2013 1125h	**8260-W**	Aqueous	☑	voC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303395-002B				**3510-ORO-PR**		☐	walkin-semi-tph/oro/dro	2
				3510-SVOA-PR		☐	walkin-semi-tph/oro/dro	
				3510-TPH-PR		☐	walkin-semi-tph/oro/dro	
				8015-W-ORO(1L)		☐	walkin-semi-tph/oro/dro	
				8015-W-TPH(1L)		☑	walkin-semi-tph/oro/dro	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
				8270-W		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				

Printed: 3/20/2013

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1303395**

Client: EarthFax Engineering

Due Date: 3/20/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303395-003A	**Inside of Boom**	3/19/2013 0200h	3/19/2013 1125h	**8260-W**	Aqueous	☑	voC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303395-003B				**3510-ORO-PR**		☐	walkin-semi-tph/oro/dro	2
				3510-SVOA-PR		☐	walkin-semi-tph/oro/dro	
				3510-TPH-PR		☐	walkin-semi-tph/oro/dro	
				8015-W-ORO(1L)		☐	walkin-semi-tph/oro/dro	
				8015-W-TPH(1L)		☑	walkin-semi-tph/oro/dro	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
				8270-W		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303395-004A	**Between Weir**	3/19/2013 0745h	3/19/2013 1125h	**8260-W**	Aqueous	☑	voC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303395-004B				**3510-ORO-PR**		☐	walkin-semi-tph/oro/dro	2
				3510-SVOA-PR		☐	walkin-semi-tph/oro/dro	
				3510-TPH-PR		☐	walkin-semi-tph/oro/dro	
				8015-W-ORO(1L)		☐	walkin-semi-tph/oro/dro	
				8015-W-TPH(1L)		☑	walkin-semi-tph/oro/dro	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
				8270-W		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin-semi-tph/oro/dro	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

Client Earth Fax Engineering
Address 7324 South Union Park Ave.
Midvale UT 84047
City State Zip
Phone 801-561-1555 Fax
Contact Galen Williams
E-mail gwilliams@earthfax.com
Project Name CPL: ~~MP 43~~ MP 44.9
Project Number/P.O.# 1468
Sampler Name Tim Jimenez

AMERICAN WEST ANALYTICAL LABORATORIES
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Salt Lake City, Utah 84115

CHAIN OF CUSTODY

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Lab Sample Set # 1303395
Page _____ of _____

Turn Around Time (Circle One)
(1 day) 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected (3/20/13 per Galen)	Matrix	Number of Containers (Total)	~~GRO~~	DRO	~~GRO~~	8270 SIM	8260	8015 (Diesel/Oil)	8270 semi				COMments
RELICAN BAY	3/19/13 00:15	W	5				X	X	X	X				
OUTSIDE OF BOOM	1:45	W	5				X	X	X	X				
INSIDE OF BOOM	2:00	W	5				X	X	X	X				
BETWEEN WEIR	7:45	W	5				X	X	X	X				

QC LEVEL
1 (2) ~~2+~~
3 3+ not enough volume to do 2+

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered (Y) N
Notes:
2 Ambient or Chilled (Y) N
Notes:
3 Temperature 4.4
4 Received Broken/Leaking (Improperly Sealed) Y (N)
Notes:
5 Properly Preserved (Y) N
Checked at Bench (Y) N
Notes:
6 Received Within Holding Times (Y) N
Notes:

COC Tape Was:
1 Present on Outer Package Y N (NA)
2 Unbroken on Outer Package Y N (NA)
3 Present on Sample Y N (NA)
4 Unbroken on Sample Y N (NA)

Discrepancies Between Sample Labels and COC Record? Y (N)
Notes:

Relinquished By: Signature	Date	Received By: Signature	Date
[signature]	3/19/13	[signature]	3/19/13
PRINT NAME Tim Jimenez	Time 11:25	PRINT NAME Elma Hayward	Time 1:25
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:
per Galen Williams run all methods w/ reduced volume since insufficient volume provided.
[signature] 3/19/2013