463 West 3600 South
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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: 1303424

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 14:33:48 -06'00'

Laboratory Director or designee

ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303424-001B
Client Sample ID: 100 Yds. From Boom
Collection Date: 3/19/2013 1330h
Received Date: 3/19/2013 1700h

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

Analyzed: 3/21/2013 456h **Extracted:** 3/19/2013 2030h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303424-002B
Client Sample ID: South Marina - Background
Collection Date: 3/19/2013 1400h
Received Date: 3/19/2013 1700h

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

Analyzed: 3/21/2013 523h **Extracted:** 3/19/2013 2030h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303424-003B
Client Sample ID: South Marina
Collection Date: 3/19/2013 1500h
Received Date: 3/19/2013 1700h

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

Analyzed: 3/21/2013 642h **Extracted:** 3/19/2013 2030h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	**0.220**	
Benzo(b)fluoranthene	205-99-2	0.100	**0.200**	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	**0.110**	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	**0.120**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering **Contact:** Galen Williams
Project: MP 44.9
Lab Sample ID: 1303424-004B
Client Sample ID: 105' S. of Main Boom
Collection Date: 3/19/2013 1530h
Received Date: 3/19/2013 1700h

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

Analyzed: 3/21/2013 709h **Extracted:** 3/19/2013 2030h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.200**	
2-Methylnaphthalene	91-57-6	0.100	**0.140**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**0.140**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories

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

RUSH

D

WORK ORDER Summary

Work Order: **1303424** Page 1 of 2

Client: EarthFax Engineering

Due Date: 3/20/2013

Client ID: EAR100 **Contact:** Galen Williams

Project: **MP 44.9** **QC Level:** II+ WO Type: Standard

Comments: Next Day Rush / QC2+ / partial reports as results become available, and bill accordingly.;

el

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303424-001A	**100 Yds. From Boom**	3/19/2013 1330h	3/19/2013 1700h	**8260-W**	Aqueous	☑	vOC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303424-001B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303424-001C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303424-001D				**3510-ORO-PR**		☐	Walkin-oro	
				8015-W-ORO(1L)		☐	Walkin-oro	
1303424-001E				**COD-HACH8000**		☐	ww - cod	1
1303424-002A	**South Marina - Background**	3/19/2013 1400h	3/19/2013 1700h	**8260-W**	Aqueous	☑	vOC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303424-002B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303424-002C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303424-002D				**3510-ORO-PR**		☐	Walkin-oro	
				8015-W-ORO(1L)		☐	Walkin-oro	
1303424-002E				**COD-HACH8000**		☐	ww - cod	1
1303424-003A	**South Marina**	3/19/2013 1500h	3/19/2013 1700h	**8260-W**	Aqueous	☑	vOC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303424-003B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303424-003C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	

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: **1303424**

Client: EarthFax Engineering

Due Date: 3/20/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303424-003C	**South Marina**	3/19/2013 1500h	3/19/2013 1700h	**8015-W-TPH(1L)**	Aqueous	☑	Walkin-TPH (Liters)	2
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303424-003D				**3510-ORO-PR**		☐	Walkin-oro	
				8015-W-ORO(1L)		☐	Walkin-oro	
1303424-003E				**COD-HACH8000**		☐	ww - cod	1
1303424-004A	**105' S. of Main Boom**	3/19/2013 1530h	3/19/2013 1700h	**8260-W**	Aqueous	☑	vOC	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303424-004B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303424-004C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303424-004D				**3510-ORO-PR**		☐	Walkin-oro	1
				8015-W-ORO(1L)		☐	Walkin-oro	

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

Client CHEVRON PIPE LINE

Address SALT LAKE PUMP STATION

SALT LAKE CITY UT
City State Zip

Phone _____ Fax _____

Contact GALEN WILLIAMS

E-mail GWILLIAMS@EARTHFAX.COM

Project Name ~~WILLARD BAY INCIDENT~~

Project Number/P.O.# ~~MILEPOST 44.9~~

Sampler Name L. DUSHANE

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CHAIN OF CUSTODY

Lab Sample Set # 1303424

Page _____ of _____

Turn Around Time (Circle One)

1 day | 2 day | 3 day | 4 day | 5 day | Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED										QC LEVEL	COMMENTS
				FULL VOLATILES 8260	TPH-D 8015	TPH-G 8260	TPH-DRO	SEMIVOLATILES 8270	PAH 8270C SIM	COD				1 2 2+ 3 3+ 4	
100 yds. FROM BOOM	3/19/13 1330	SW	10	X	X	X	X	X	X	X					
SOUTH MARINA - BACKGROUND	3/19/13 1400	SW	10	X	X	X	X	X	X	X					
SOUTH MARINA	3/19/13 1500	SW	10	X	X	X	X	X	X	X					
105 FT. S. OF MAIN BOOM	3/19/13 1530	SW	10	X	X	X	X	X	X						
~~MARINA~~	~~3/19/13~~	~~SW~~	~~1~~	~~X~~											

LABORATORY USE ONLY

SAMPLES WERE:

1 Shipped or hand delivered
Notes:

2 Ambient or Chilled
Notes:

3 Temperature 1.0

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
L. DUSHANE	3/19/13	[signature]	3/19/13
PRINT NAME LARRY DUSHANE	Time 1700	PRINT NAME Elma Haycock	Time 1700
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:

Sample Set: 1303424

Preservation Check Sheet

Sample Set Extension and pH

Bottle Type	Preservative	All OK	Except 1	Except 2	Except 3	Except	Except	Except	Except	Except	Except	Except	Except	Except	Except	Except	Except
Ammonia	pH <2 H_2SO_4																
COD	pH <2 H_2SO_4		Yes	Yes	Yes												
Cyanide	PH >12 NaOH																
Metals	pH <2 HNO_3																
NO_2 & NO_3	pH <2 H_2SO_4																
Nutrients	pH <2 H_2SO_4																
O & G	pH <2 HCL																
Phenols	pH <2 H_2SO_4																
Sulfide	pH > 9NaOH, Zn Acetate																
TKN	pH <2 H_2SO_4																
TOC	pH <2 H_3PO_4																
TOX	pH <2 H_2SO_4																
T PO_4	pH <2 H_2SO_4																
TPH	pH <2 HCL																

Procedure:
1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation