UICI - 5

WASTE ANALYSES INFO

2017

1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

2-2-17

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL Dolores Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
SE ¼ Section 31 Township 37 North Range 15 West; 38.7416799, -108.433635

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non-Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 10 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Brad Higgins TITLE: SHE DATE: 02/17
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 10, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Dolores Station OrderNo.: 1702175

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/3/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Chain-of-Custody Record

Client: Souder Miller Associates

Mailing Address: 401 W. Broadway

Farmington, NM 87401

Phone #: 505-325-7535

email or Fax#: Ashley.Maxwell@soudermiller.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Dolores Station

Project #:

Project Manager: Ashley Maxwell
Tom Long - Enterprise

Sampler: RW & CP

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1702175	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals TCLP	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
2-2-17	11:15	H_2O	Dolores BGT	VARIOUS	Various	-001						X	X			X						
"	"	"	Blank	VOA	HCl	-002										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
2-2-17	1706			2/2/17	1706
2/2/17	1811			02/03/17	0835

Remarks: 8260 Full List Report TCLP compounds At TCLP Limits
Invoice Enterprise CC Tom Long

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1702175 RcptNo: 1

Received by/date: 02/03/17

Logged By: Ashley Gallegos 2/3/2017 8:35:00 AM

Completed By: Ashley Gallegos 2/3/2017 11:23:22 AM

Reviewed By: 02/03/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID	MB-30052	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals				
Client ID:	PBW	Batch ID:	30052	RunNo:	40536				
Prep Date:	2/3/2017	Analysis Date:	2/6/2017	SeqNo:	1270070	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-30052	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals				
Client ID:	LCSW	Batch ID:	30052	RunNo:	40536				
Prep Date:	2/3/2017	Analysis Date:	2/6/2017	SeqNo:	1270071	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.48	0.020	0.5000	0	96.5	80	120			
Barium	0.48	0.020	0.5000	0	95.2	80	120			
Cadmium	0.47	0.0020	0.5000	0	94.2	80	120			
Chromium	0.48	0.0060	0.5000	0	95.8	80	120			
Lead	0.47	0.0050	0.5000	0	93.2	80	120			
Selenium	0.50	0.050	0.5000	0	99.9	80	120			
Silver	0.097	0.0050	0.1000	0	97.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702175**

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID	**MB-30083**	SampType: **MBLK**		TestCode: **EPA Method 7470: Mercury**					
Client ID:	**PBW**	Batch ID: **30083**		RunNo: **40571**					
Prep Date:	**2/7/2017**	Analysis Date: **2/7/2017**		SeqNo: **1271184**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	**LCS-30083**	SampType: **LCS**		TestCode: **EPA Method 7470: Mercury**					
Client ID:	**LCSW**	Batch ID: **30083**		RunNo: **40571**					
Prep Date:	**2/7/2017**	Analysis Date: **2/7/2017**		SeqNo: **1271186**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID	lcsd-30059	SampType:	LCSD		TestCode:	EPA Method 8270C: PAHs				
Client ID:	LCSS02	Batch ID:	30059		RunNo:	40635				
Prep Date:	2/6/2017	Analysis Date:	2/9/2017		SeqNo:	1273337	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	15	0.50	20.00	0	74.5	38	154	11.5	21	
Benzo(a)pyrene	14	0.50	20.00	0	72.4	38.6	153	3.80	24.8	
Dibenz(a,h)anthracene	16	0.50	20.00	0	78.3	39.7	155	6.05	26	
Benzo(g,h,i)perylene	15	0.50	20.00	0	73.1	39.6	154	6.35	20	
Indeno(1,2,3-cd)pyrene	15	0.50	20.00	0	75.6	19.1	153	5.30	20	
Surr: N-hexadecane	50		87.60		56.9	15	176	0	0	
Surr: Benzo(e)pyrene	13		20.00		63.8	15	198	0	0	

Sample ID	mb-30059	SampType:	MBLK		TestCode:	EPA Method 8270C: PAHs				
Client ID:	PBW	Batch ID:	30059		RunNo:	40635				
Prep Date:	2/6/2017	Analysis Date:	2/9/2017		SeqNo:	1273338	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	49		87.60		56.4	15	176			
Surr: Benzo(e)pyrene	12		20.00		61.2	15	198			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID	lcs-30059	SampType:	LCS	TestCode:	EPA Method 8270C: PAHs					
Client ID:	LCSW	Batch ID:	30059	RunNo:	40635					
Prep Date:	2/6/2017	Analysis Date:	2/9/2017	SeqNo:	1273336	Units:	µg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	12	0.50	20.00	0	60.0	37.4	120			
1-Methylnaphthalene	12	0.50	20.00	0	60.5	39.3	121			
2-Methylnaphthalene	12	0.50	20.00	0	57.9	37.8	122			
Acenaphthylene	13	0.50	20.00	0	64.1	37	124			
Acenaphthene	13	0.50	20.00	0	65.9	35.6	123			
Fluorene	14	0.50	20.00	0	70.6	35.2	122			
Phenanthrene	14	0.50	20.00	0	68.9	38.8	122			
Anthracene	14	0.50	20.00	0	68.9	37.5	125			
Fluoranthene	14	0.50	20.00	0	70.9	37.4	131			
Pyrene	15	0.50	20.00	0	74.1	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	73.2	25.4	141			
Chrysene	14	0.50	20.00	0	68.0	33.6	155			
Benzo(b)fluoranthene	15	0.50	20.00	0	74.0	39	153			
Benzo(k)fluoranthene	13	0.50	20.00	0	66.4	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	69.7	38.6	153			
Dibenz(a,h)anthracene	15	0.50	20.00	0	73.7	39.7	155			
Benzo(g,h,i)perylene	14	0.50	20.00	0	68.6	39.6	154			
Indeno(1,2,3-cd)pyrene	14	0.50	20.00	0	71.7	19.1	153			
Surr: N-hexadecane	50		87.60		57.4	15	176			
Surr: Benzo(e)pyrene	13		20.00		65.4	15	198			

Sample ID	lcsd-30059	SampType:	LCSD	TestCode:	EPA Method 8270C: PAHs					
Client ID:	LCSS02	Batch ID:	30059	RunNo:	40635					
Prep Date:	2/6/2017	Analysis Date:	2/9/2017	SeqNo:	1273337	Units:	µg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	14	0.50	20.00	0	69.9	37.4	120	15.2	20	
1-Methylnaphthalene	14	0.50	20.00	0	69.8	39.3	121	14.3	26.8	
2-Methylnaphthalene	13	0.50	20.00	0	66.0	37.8	122	13.1	23.8	
Acenaphthylene	15	0.50	20.00	0	73.5	37	124	13.7	28.6	
Acenaphthene	14	0.50	20.00	0	72.4	35.6	123	9.40	27	
Fluorene	14	0.50	20.00	0	70.8	35.2	122	0.283	25.7	
Phenanthrene	15	0.50	20.00	0	73.5	38.8	122	6.46	20	
Anthracene	14	0.50	20.00	0	72.4	37.5	125	4.95	21.2	
Fluoranthene	15	0.50	20.00	0	75.5	37.4	131	6.28	21.8	
Pyrene	15	0.50	20.00	0	74.2	27.5	140	0.135	31.1	
Benz(a)anthracene	16	0.50	20.00	0	77.6	25.4	141	5.84	26.6	
Chrysene	15	0.50	20.00	0	72.6	33.6	155	6.54	21.2	
Benzo(b)fluoranthene	15	0.50	20.00	0	77.4	39	153	4.49	20	

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W40534**	RunNo: **40534**
Prep Date:	Analysis Date: **2/6/2017**	SeqNo: **1270237** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.7		10.00		96.5	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W40534**	RunNo: **40534**
Prep Date:	Analysis Date: **2/6/2017**	SeqNo: **1270238** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.3	70	130			
Toluene	20	1.0	20.00	0	99.5	70	130			
Chlorobenzene	19	1.0	20.00	0	96.2	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.5	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	90.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702175**

10-Feb-17

Client: Souder, Miller and Associates
Project: Dolores Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W40534**	RunNo: **40534**
Prep Date:	Analysis Date: **2/6/2017**	SeqNo: **1270237** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES
Client ID: LCSW	Batch ID: W40507	RunNo: 40507
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269583 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: W40534	RunNo: 40534
Prep Date:	Analysis Date: 2/6/2017	SeqNo: 1270237 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: W40507	RunNo: 40507
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269582 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES
Client ID: LCSW	Batch ID: W40507	RunNo: 40507
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269583 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.3	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702175**

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W40507**	RunNo: **40507**
Prep Date:	Analysis Date: **2/3/2017**	SeqNo: **1269582** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702175**
Date Reported: **2/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: TRIP BLANK
Project: Dolores Station
Collection Date:
Lab ID: 1702175-002 **Matrix:** AQUEOUS **Received Date:** 2/3/2017 8:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**
1,1-Dichloropropene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
2-Hexanone	ND	10		µg/L	1	2/4/2017 12:55:38 AM
Isopropylbenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/4/2017 12:55:38 AM
Methylene Chloride	ND	3.0		µg/L	1	2/4/2017 12:55:38 AM
n-Butylbenzene	ND	3.0		µg/L	1	2/4/2017 12:55:38 AM
n-Propylbenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
sec-Butylbenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Styrene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
tert-Butylbenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/4/2017 12:55:38 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
trans-1,2-DCE	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/4/2017 12:55:38 AM
Vinyl chloride	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Xylenes, Total	ND	1.5		µg/L	1	2/4/2017 12:55:38 AM
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%Rec	1	2/4/2017 12:55:38 AM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	2/4/2017 12:55:38 AM
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	2/4/2017 12:55:38 AM
Surr: Toluene-d8	115	70-130		%Rec	1	2/4/2017 12:55:38 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702175**
Date Reported: **2/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: TRIP BLANK
Project: Dolores Station
Collection Date:
Lab ID: 1702175-002 **Matrix:** AQUEOUS **Received Date:** 2/3/2017 8:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**
Benzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Toluene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Ethylbenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Naphthalene	ND	2.0		µg/L	1	2/4/2017 12:55:38 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	2/4/2017 12:55:38 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	2/4/2017 12:55:38 AM
Acetone	ND	10		µg/L	1	2/4/2017 12:55:38 AM
Bromobenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Bromodichloromethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Bromoform	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Bromomethane	ND	3.0		µg/L	1	2/4/2017 12:55:38 AM
2-Butanone	ND	10		µg/L	1	2/4/2017 12:55:38 AM
Carbon disulfide	ND	10		µg/L	1	2/4/2017 12:55:38 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Chlorobenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Chloroethane	ND	2.0		µg/L	1	2/4/2017 12:55:38 AM
Chloroform	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Chloromethane	ND	3.0		µg/L	1	2/4/2017 12:55:38 AM
2-Chlorotoluene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
4-Chlorotoluene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
cis-1,2-DCE	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/4/2017 12:55:38 AM
Dibromochloromethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Dibromomethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/4/2017 12:55:38 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/4/2017 12:55:38 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702175**
Date Reported: **2/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Dolores Station
Lab ID: 1702175-001 **Matrix:** AQUEOUS

Client Sample ID: Dolores BGT
Collection Date: 2/2/2017 11:15:00 AM
Received Date: 2/3/2017 8:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**
n-Butylbenzene	ND	0.60		mg/L	200	2/6/2017 8:26:17 PM
n-Propylbenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
sec-Butylbenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Styrene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
tert-Butylbenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	2/6/2017 8:26:17 PM
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
trans-1,2-DCE	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,1,1-Trichloroethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,1,2-Trichloroethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Trichloroethene (TCE)	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Trichlorofluoromethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2,3-Trichloropropane	ND	0.40		mg/L	200	2/6/2017 8:26:17 PM
Vinyl chloride	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Xylenes, Total	ND	0.30		mg/L	200	2/6/2017 8:26:17 PM
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	200	2/6/2017 8:26:17 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	200	2/6/2017 8:26:17 PM
Surr: Dibromofluoromethane	97.5	70-130		%Rec	200	2/6/2017 8:26:17 PM
Surr: Toluene-d8	106	70-130		%Rec	200	2/6/2017 8:26:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702175**
Date Reported: **2/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Dolores BGT
Project: Dolores Station
Collection Date: 2/2/2017 11:15:00 AM
Lab ID: 1702175-001 **Matrix:** AQUEOUS **Received Date:** 2/3/2017 8:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Naphthalene	ND	0.40		mg/L	200	2/6/2017 8:26:17 PM
1-Methylnaphthalene	ND	0.80		mg/L	200	2/6/2017 8:26:17 PM
2-Methylnaphthalene	ND	0.80		mg/L	200	2/6/2017 8:26:17 PM
Acetone	ND	2.0		mg/L	200	2/6/2017 8:26:17 PM
Bromobenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Bromodichloromethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Bromoform	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Bromomethane	ND	0.60		mg/L	200	2/6/2017 8:26:17 PM
2-Butanone	ND	2.0		mg/L	200	2/6/2017 8:26:17 PM
Carbon disulfide	ND	2.0		mg/L	200	2/6/2017 8:26:17 PM
Carbon Tetrachloride	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Chlorobenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Chloroethane	ND	0.40		mg/L	200	2/6/2017 8:26:17 PM
Chloroform	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Chloromethane	ND	0.60		mg/L	200	2/6/2017 8:26:17 PM
2-Chlorotoluene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
4-Chlorotoluene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
cis-1,2-DCE	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	2/6/2017 8:26:17 PM
Dibromochloromethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Dibromomethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2-Dichlorobenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,3-Dichlorobenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,4-Dichlorobenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Dichlorodifluoromethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,1-Dichloroethane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,1-Dichloroethene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2-Dichloropropane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,3-Dichloropropane	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
2,2-Dichloropropane	ND	0.40		mg/L	200	2/6/2017 8:26:17 PM
1,1-Dichloropropene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Hexachlorobutadiene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
2-Hexanone	ND	2.0		mg/L	200	2/6/2017 8:26:17 PM
Isopropylbenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
4-Isopropyltoluene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
4-Methyl-2-pentanone	ND	2.0		mg/L	200	2/6/2017 8:26:17 PM
Methylene Chloride	ND	0.60		mg/L	200	2/6/2017 8:26:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702175**
Date Reported: **2/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Dolores Station
Lab ID: 1702175-001 **Matrix:** AQUEOUS

Client Sample ID: Dolores BGT
Collection Date: 2/2/2017 11:15:00 AM
Received Date: 2/3/2017 8:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY						Analyst: **MED**
Mercury	ND	0.00020		mg/L	1	2/7/2017 6:30:36 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **pmf**
Arsenic	ND	0.020		mg/L	1	2/6/2017 12:51:25 PM
Barium	0.094	0.020		mg/L	1	2/6/2017 12:51:25 PM
Cadmium	ND	0.0020		mg/L	1	2/6/2017 12:51:25 PM
Chromium	ND	0.0060		mg/L	1	2/6/2017 12:51:25 PM
Lead	ND	0.0050		mg/L	1	2/6/2017 12:51:25 PM
Selenium	ND	0.050		mg/L	1	2/6/2017 12:51:25 PM
Silver	ND	0.0050		mg/L	1	2/6/2017 12:51:25 PM
EPA METHOD 8270C: PAHS						Analyst: **DAM**
Naphthalene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
1-Methylnaphthalene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
2-Methylnaphthalene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Acenaphthylene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Acenaphthene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Fluorene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Phenanthrene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Anthracene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Fluoranthene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Pyrene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Benz(a)anthracene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Chrysene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Benzo(b)fluoranthene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Benzo(k)fluoranthene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Benzo(a)pyrene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Dibenz(a,h)anthracene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Benzo(g,h,i)perylene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Indeno(1,2,3-cd)pyrene	ND	0.50		µg/L	1	2/9/2017 2:55:59 PM
Surr: N-hexadecane	61.6	15-176		%Rec	1	2/9/2017 2:55:59 PM
Surr: Benzo(e)pyrene	59.1	15-198		%Rec	1	2/9/2017 2:55:59 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**
Benzene	ND	0.50		mg/L	200	2/6/2017 8:26:17 PM
Toluene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Ethylbenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/6/2017 8:26:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL San Luis Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
UL F Section 13 Township 17 North Range 3 East; 35.704883, -107.106298

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 32 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☑ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Gabe Higgins TITLE: Supt DATE: 12/17
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 22, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: San Luis OrderNo.: 1702604

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/14/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W Broadway Farmington, NM 87401

Phone #: 505 325 7535

email or Fax#: Ashley Maxwell

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: San Luis

Project #: San Luis Non Exempt BGT

Project Manager: Ashley Maxwell Tom Long

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1702604	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals TCLP	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
2/13/17	10:33	H_2O	~~Non Exempt~~ BGT	Various	Various	-001						X	X			X						

Date: 2/13/17 Time: 1710 Relinquished by: [signature]
Received by: [signature] Date 2/13/17 Time 1710

Date: 2/13/17 Time: 1800 Relinquished by: [signature]
Received by: [signature] Date 02/14/17 Time 0700

Remarks: 8260': Full List Report TCLP Compound at TCLP Limits
Invoice Tom Long / Enterprise

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1702604 RcptNo: 1

Received by/date: AT 02/14/17

Logged By: Andy Jansson 2/14/2017 7:00:00 AM

Completed By: Andy Jansson 02/14/17

Reviewed By: RE/AJ 02/14/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? No
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: RE

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702604**

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID **MB-30292**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **30292**	RunNo: **40875**
Prep Date: **2/20/2017**	Analysis Date: **2/21/2017**	SeqNo: **1280535** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID **LCS-30292**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **30292**	RunNo: **40875**
Prep Date: **2/20/2017**	Analysis Date: **2/21/2017**	SeqNo: **1280536** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.49	0.020	0.5000	0	98.1	80	120			
Barium	0.49	0.020	0.5000	0	98.5	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.8	80	120			
Chromium	0.49	0.0060	0.5000	0	97.4	80	120			
Lead	0.48	0.0050	0.5000	0	96.7	80	120			
Selenium	0.49	0.050	0.5000	0	98.8	80	120			
Silver	0.099	0.0050	0.1000	0	98.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702604**

22-Feb-17

Client: Souder, Miller and Associates
Project: San Luis

Sample ID	MB-30261	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury					
Client ID:	PBW	Batch ID:	30261	RunNo:	40811					
Prep Date:	2/16/2017	Analysis Date:	2/16/2017	SeqNo:	1278648	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-30261	SampType:	LCS	TestCode:	EPA Method 7470: Mercury					
Client ID:	LCSW	Batch ID:	30261	RunNo:	40811					
Prep Date:	2/16/2017	Analysis Date:	2/16/2017	SeqNo:	1278649	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	80	120			

Sample ID	1702604-001BMS	SampType:	MS	TestCode:	EPA Method 7470: Mercury					
Client ID:	Non Exempt BGT	Batch ID:	30261	RunNo:	40811					
Prep Date:	2/16/2017	Analysis Date:	2/16/2017	SeqNo:	1278651	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.00020	0.005000	0.0001036	105	75	125			

Sample ID	1702604-001BMSD	SampType:	MSD	TestCode:	EPA Method 7470: Mercury					
Client ID:	Non Exempt BGT	Batch ID:	30261	RunNo:	40811					
Prep Date:	2/16/2017	Analysis Date:	2/16/2017	SeqNo:	1278652	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0056	0.00020	0.005000	0.0001036	110	75	125	3.86	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702604**

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID **lcsd-30268**	SampType: **LCSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS02**	Batch ID: **30268**	RunNo: **40880**
Prep Date: **2/17/2017**	Analysis Date: **2/21/2017**	SeqNo: **1280963** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	15	0.50	20.00	0	72.7	38	154	8.01	21	
Benzo(a)pyrene	14	0.50	20.00	0	72.2	38.6	153	2.67	24.8	
Dibenz(a,h)anthracene	16	0.50	20.00	0	81.3	39.7	155	12.7	26	
Benzo(g,h,i)perylene	15	0.50	20.00	0	75.7	39.6	154	11.6	20	
Indeno(1,2,3-cd)pyrene	15	0.50	20.00	0	76.6	19.1	153	12.0	20	
Surr: N-hexadecane	60		87.60		67.9	15	176	0	0	
Surr: Benzo(e)pyrene	14		20.00		71.4	15	198	0	0	

Sample ID **mb-30268**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBW**	Batch ID: **30268**	RunNo: **40880**
Prep Date: **2/17/2017**	Analysis Date: **2/21/2017**	SeqNo: **1280964** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	62		87.60		71.1	15	176			
Surr: Benzo(e)pyrene	13		20.00		66.2	15	198			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702604**

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID **lcs-30268**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**							
Client ID: **LCSW**	Batch ID: **30268**	RunNo: **40880**							
Prep Date: **2/17/2017**	Analysis Date: **2/21/2017**	SeqNo: **1280962**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	13	0.50	20.00	0	65.1	37.4	120			
1-Methylnaphthalene	13	0.50	20.00	0	62.9	39.3	121			
2-Methylnaphthalene	13	0.50	20.00	0	64.4	37.8	122			
Acenaphthylene	15	0.50	20.00	0	72.8	37	124			
Acenaphthene	15	0.50	20.00	0	76.3	35.6	123			
Fluorene	16	0.50	20.00	0	78.1	35.2	122			
Phenanthrene	15	0.50	20.00	0	74.2	38.8	122			
Anthracene	15	0.50	20.00	0	73.8	37.5	125			
Fluoranthene	15	0.50	20.00	0	73.5	37.4	131			
Pyrene	16	0.50	20.00	0	79.2	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	75.8	25.4	141			
Chrysene	14	0.50	20.00	0	71.0	33.6	155			
Benzo(b)fluoranthene	14	0.50	20.00	0	72.5	39	153			
Benzo(k)fluoranthene	13	0.50	20.00	0	67.1	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	70.3	38.6	153			
Dibenz(a,h)anthracene	14	0.50	20.00	0	71.6	39.7	155			
Benzo(g,h,i)perylene	13	0.50	20.00	0	67.4	39.6	154			
Indeno(1,2,3-cd)pyrene	14	0.50	20.00	0	67.9	19.1	153			
Surr: N-hexadecane	61		87.60		69.8	15	176			
Surr: Benzo(e)pyrene	14		20.00		69.8	15	198			

Sample ID **lcsd-30268**	SampType: **LCSD**	TestCode: **EPA Method 8270C: PAHs**							
Client ID: **LCSS02**	Batch ID: **30268**	RunNo: **40880**							
Prep Date: **2/17/2017**	Analysis Date: **2/21/2017**	SeqNo: **1280963**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	11	0.50	20.00	0	53.0	37.4	120	20.5	20	R
1-Methylnaphthalene	11	0.50	20.00	0	56.0	39.3	121	11.6	26.8	
2-Methylnaphthalene	12	0.50	20.00	0	59.5	37.8	122	7.91	23.8	
Acenaphthylene	12	0.50	20.00	0	58.8	37	124	21.3	28.6	
Acenaphthene	13	0.50	20.00	0	64.1	35.6	123	17.4	27	
Fluorene	14	0.50	20.00	0	68.8	35.2	122	12.7	25.7	
Phenanthrene	15	0.50	20.00	0	75.9	38.8	122	2.27	20	
Anthracene	15	0.50	20.00	0	72.8	37.5	125	1.36	21.2	
Fluoranthene	16	0.50	20.00	0	78.8	37.4	131	6.96	21.8	
Pyrene	14	0.50	20.00	0	68.9	27.5	140	13.9	31.1	
Benz(a)anthracene	15	0.50	20.00	0	76.9	25.4	141	1.44	26.6	
Chrysene	15	0.50	20.00	0	76.9	33.6	155	7.98	21.2	
Benzo(b)fluoranthene	16	0.50	20.00	0	77.5	39	153	6.67	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702604**

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A40747**	RunNo: **40747**
Prep Date:	Analysis Date: **2/15/2017**	SeqNo: **1277596** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702604**

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A40747**	RunNo: **40747**
Prep Date:	Analysis Date: **2/15/2017**	SeqNo: **1277596** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702604**

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A40747**	RunNo: **40747**
Prep Date:	Analysis Date: **2/15/2017**	SeqNo: **1277595** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	22	1.0	20.00	0	111	70	130			
Chlorobenzene	23	1.0	20.00	0	115	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.5	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.4	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A40747**	RunNo: **40747**
Prep Date:	Analysis Date: **2/15/2017**	SeqNo: **1277596** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702604**
Date Reported: **2/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: San Luis
Lab ID: 1702604-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt BGT
Collection Date: 2/13/2017 10:33:00 AM
Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
n-Butylbenzene	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747
n-Propylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
sec-Butylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Styrene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
tert-Butylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
trans-1,2-DCE	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,1-Trichloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,2-Trichloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Trichloroethene (TCE)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Trichlorofluoromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,3-Trichloropropane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Vinyl chloride	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Xylenes, Total	ND	0.30		mg/L	200	2/15/2017 2:56:00 PM	A40747
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747
Surr: Dibromofluoromethane	97.9	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747
Surr: Toluene-d8	102	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702604**
Date Reported: **2/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: San Luis
Lab ID: 1702604-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt BGT
Collection Date: 2/13/2017 10:33:00 AM
Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Naphthalene	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
1-Methylnaphthalene	ND	0.80		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Methylnaphthalene	ND	0.80		mg/L	200	2/15/2017 2:56:00 PM	A40747
Acetone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromodichloromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromoform	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromomethane	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Butanone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Carbon disulfide	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Carbon Tetrachloride	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chloroethane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chloroform	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chloromethane	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Chlorotoluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
4-Chlorotoluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
cis-1,2-DCE	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Dibromochloromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Dibromomethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,3-Dichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,4-Dichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Dichlorodifluoromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1-Dichloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1-Dichloroethene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dichloropropane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,3-Dichloropropane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
2,2-Dichloropropane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1-Dichloropropene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Hexachlorobutadiene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Hexanone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Isopropylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
4-Isopropyltoluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
4-Methyl-2-pentanone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Methylene Chloride	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702604**
Date Reported: **2/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt BGT
Project: San Luis
Collection Date: 2/13/2017 10:33:00 AM
Lab ID: 1702604-001 **Matrix:** AQUEOUS **Received Date:** 2/14/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	ND	0.00020		mg/L	1	2/16/2017 6:05:14 PM	30261
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **pmf**	
Arsenic	ND	0.020		mg/L	1	2/21/2017 11:44:34 AM	30292
Barium	0.058	0.020		mg/L	1	2/21/2017 11:44:34 AM	30292
Cadmium	0.013	0.0020		mg/L	1	2/21/2017 11:44:34 AM	30292
Chromium	0.0083	0.0060		mg/L	1	2/21/2017 11:44:34 AM	30292
Lead	ND	0.0050		mg/L	1	2/21/2017 11:44:34 AM	30292
Selenium	ND	0.050		mg/L	1	2/21/2017 11:44:34 AM	30292
Silver	ND	0.0050		mg/L	1	2/21/2017 11:44:34 AM	30292
EPA METHOD 8270C: PAHS						Analyst: **DAM**	
Naphthalene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
1-Methylnaphthalene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
2-Methylnaphthalene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Acenaphthylene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Acenaphthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Fluorene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Phenanthrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Anthracene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Fluoranthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Pyrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benz(a)anthracene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Chrysene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(b)fluoranthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(k)fluoranthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(a)pyrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Dibenz(a,h)anthracene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(g,h,i)perylene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Indeno(1,2,3-cd)pyrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Surr: N-hexadecane	64.0	15-176		%Rec	1	2/21/2017 12:56:34 PM	30268
Surr: Benzo(e)pyrene	63.4	15-198		%Rec	1	2/21/2017 12:56:34 PM	30268
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Benzene	ND	0.50		mg/L	200	2/15/2017 2:56:00 PM	A40747
Toluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Ethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 22, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: San Luis OrderNo.: 1702604

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/14/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1702604**
Date Reported: **2/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: San Luis
Lab ID: 1702604-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt BGT
Collection Date: 2/13/2017 10:33:00 AM
Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	ND	0.00020		mg/L	1	2/16/2017 6:05:14 PM	30261
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **pmf**	
Arsenic	ND	0.020		mg/L	1	2/21/2017 11:44:34 AM	30292
Barium	0.058	0.020		mg/L	1	2/21/2017 11:44:34 AM	30292
Cadmium	0.013	0.0020		mg/L	1	2/21/2017 11:44:34 AM	30292
Chromium	0.0083	0.0060		mg/L	1	2/21/2017 11:44:34 AM	30292
Lead	ND	0.0050		mg/L	1	2/21/2017 11:44:34 AM	30292
Selenium	ND	0.050		mg/L	1	2/21/2017 11:44:34 AM	30292
Silver	ND	0.0050		mg/L	1	2/21/2017 11:44:34 AM	30292
EPA METHOD 8270C: PAHS						Analyst: **DAM**	
Naphthalene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
1-Methylnaphthalene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
2-Methylnaphthalene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Acenaphthylene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Acenaphthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Fluorene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Phenanthrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Anthracene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Fluoranthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Pyrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benz(a)anthracene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Chrysene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(b)fluoranthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(k)fluoranthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(a)pyrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Dibenz(a,h)anthracene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(g,h,i)perylene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Indeno(1,2,3-cd)pyrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	30268
Surr: N-hexadecane	64.0	15-176		%Rec	1	2/21/2017 12:56:34 PM	30268
Surr: Benzo(e)pyrene	63.4	15-198		%Rec	1	2/21/2017 12:56:34 PM	30268
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Benzene	ND	0.50		mg/L	200	2/15/2017 2:56:00 PM	A40747
Toluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Ethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702604**
Date Reported: **2/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: San Luis
Lab ID: 1702604-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt BGT
Collection Date: 2/13/2017 10:33:00 AM
Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Naphthalene	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
1-Methylnaphthalene	ND	0.80		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Methylnaphthalene	ND	0.80		mg/L	200	2/15/2017 2:56:00 PM	A40747
Acetone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromodichloromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromoform	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Bromomethane	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Butanone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Carbon disulfide	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Carbon Tetrachloride	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chloroethane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chloroform	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Chloromethane	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Chlorotoluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
4-Chlorotoluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
cis-1,2-DCE	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Dibromochloromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Dibromomethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,3-Dichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,4-Dichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Dichlorodifluoromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1-Dichloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1-Dichloroethene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2-Dichloropropane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,3-Dichloropropane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
2,2-Dichloropropane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1-Dichloropropene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Hexachlorobutadiene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
2-Hexanone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Isopropylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
4-Isopropyltoluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
4-Methyl-2-pentanone	ND	2.0		mg/L	200	2/15/2017 2:56:00 PM	A40747
Methylene Chloride	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747

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Analytical Report
Lab Order **1702604**
Date Reported: **2/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: San Luis
Lab ID: 1702604-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt BGT
Collection Date: 2/13/2017 10:33:00 AM
Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
n-Butylbenzene	ND	0.60		mg/L	200	2/15/2017 2:56:00 PM	A40747
n-Propylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
sec-Butylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Styrene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
tert-Butylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
trans-1,2-DCE	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,1-Trichloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,1,2-Trichloroethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Trichloroethene (TCE)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Trichlorofluoromethane	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
1,2,3-Trichloropropane	ND	0.40		mg/L	200	2/15/2017 2:56:00 PM	A40747
Vinyl chloride	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A40747
Xylenes, Total	ND	0.30		mg/L	200	2/15/2017 2:56:00 PM	A40747
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747
Surr: Dibromofluoromethane	97.9	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747
Surr: Toluene-d8	102	70-130		%Rec	200	2/15/2017 2:56:00 PM	A40747

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES
Client ID: LCSW	Batch ID: A40747	RunNo: 40747
Prep Date:	Analysis Date: 2/15/2017	SeqNo: 1277595 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	22	1.0	20.00	0	111	70	130			
Chlorobenzene	23	1.0	20.00	0	115	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.5	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.4	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: A40747	RunNo: 40747
Prep Date:	Analysis Date: 2/15/2017	SeqNo: 1277596 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: A40747	RunNo: 40747
Prep Date:	Analysis Date: 2/15/2017	SeqNo: 1277596 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: A40747	RunNo: 40747						
Prep Date:	Analysis Date: 2/15/2017	SeqNo: 1277596	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID lcs-30268	SampType: LCS	TestCode: EPA Method 8270C: PAHs
Client ID: LCSW	Batch ID: 30268	RunNo: 40880
Prep Date: 2/17/2017	Analysis Date: 2/21/2017	SeqNo: 1280962 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	13	0.50	20.00	0	65.1	37.4	120			
1-Methylnaphthalene	13	0.50	20.00	0	62.9	39.3	121			
2-Methylnaphthalene	13	0.50	20.00	0	64.4	37.8	122			
Acenaphthylene	15	0.50	20.00	0	72.8	37	124			
Acenaphthene	15	0.50	20.00	0	76.3	35.6	123			
Fluorene	16	0.50	20.00	0	78.1	35.2	122			
Phenanthrene	15	0.50	20.00	0	74.2	38.8	122			
Anthracene	15	0.50	20.00	0	73.8	37.5	125			
Fluoranthene	15	0.50	20.00	0	73.5	37.4	131			
Pyrene	16	0.50	20.00	0	79.2	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	75.8	25.4	141			
Chrysene	14	0.50	20.00	0	71.0	33.6	155			
Benzo(b)fluoranthene	14	0.50	20.00	0	72.5	39	153			
Benzo(k)fluoranthene	13	0.50	20.00	0	67.1	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	70.3	38.6	153			
Dibenz(a,h)anthracene	14	0.50	20.00	0	71.6	39.7	155			
Benzo(g,h,i)perylene	13	0.50	20.00	0	67.4	39.6	154			
Indeno(1,2,3-cd)pyrene	14	0.50	20.00	0	67.9	19.1	153			
Surr: N-hexadecane	61		87.60		69.8	15	176			
Surr: Benzo(e)pyrene	14		20.00		69.8	15	198			

Sample ID lcsd-30268	SampType: LCSD	TestCode: EPA Method 8270C: PAHs
Client ID: LCSS02	Batch ID: 30268	RunNo: 40880
Prep Date: 2/17/2017	Analysis Date: 2/21/2017	SeqNo: 1280963 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	11	0.50	20.00	0	53.0	37.4	120	20.5	20	R
1-Methylnaphthalene	11	0.50	20.00	0	56.0	39.3	121	11.6	26.8	
2-Methylnaphthalene	12	0.50	20.00	0	59.5	37.8	122	7.91	23.8	
Acenaphthylene	12	0.50	20.00	0	58.8	37	124	21.3	28.6	
Acenaphthene	13	0.50	20.00	0	64.1	35.6	123	17.4	27	
Fluorene	14	0.50	20.00	0	68.8	35.2	122	12.7	25.7	
Phenanthrene	15	0.50	20.00	0	75.9	38.8	122	2.27	20	
Anthracene	15	0.50	20.00	0	72.8	37.5	125	1.36	21.2	
Fluoranthene	16	0.50	20.00	0	78.8	37.4	131	6.96	21.8	
Pyrene	14	0.50	20.00	0	68.9	27.5	140	13.9	31.1	
Benz(a)anthracene	15	0.50	20.00	0	76.9	25.4	141	1.44	26.6	
Chrysene	15	0.50	20.00	0	76.9	33.6	155	7.98	21.2	
Benzo(b)fluoranthene	16	0.50	20.00	0	77.5	39	153	6.67	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID lcsd-30268	SampType: LCSD	TestCode: EPA Method 8270C: PAHs							
Client ID: LCSS02	Batch ID: 30268	RunNo: 40880							
Prep Date: 2/17/2017	Analysis Date: 2/21/2017	SeqNo: 1280963			Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	15	0.50	20.00	0	72.7	38	154	8.01	21	
Benzo(a)pyrene	14	0.50	20.00	0	72.2	38.6	153	2.67	24.8	
Dibenz(a,h)anthracene	16	0.50	20.00	0	81.3	39.7	155	12.7	26	
Benzo(g,h,i)perylene	15	0.50	20.00	0	75.7	39.6	154	11.6	20	
Indeno(1,2,3-cd)pyrene	15	0.50	20.00	0	76.6	19.1	153	12.0	20	
Surr: N-hexadecane	60		87.60		67.9	15	176	0	0	
Surr: Benzo(e)pyrene	14		20.00		71.4	15	198	0	0	

Sample ID mb-30268	SampType: MBLK	TestCode: EPA Method 8270C: PAHs							
Client ID: PBW	Batch ID: 30268	RunNo: 40880							
Prep Date: 2/17/2017	Analysis Date: 2/21/2017	SeqNo: 1280964			Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	62		87.60		71.1	15	176			
Surr: Benzo(e)pyrene	13		20.00		66.2	15	198			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID	MB-30261	SampType:	MBLK		TestCode:	EPA Method 7470: Mercury				
Client ID:	PBW	Batch ID:	30261		RunNo:	40811				
Prep Date:	2/16/2017	Analysis Date:	2/16/2017		SeqNo:	1278648	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-30261	SampType:	LCS		TestCode:	EPA Method 7470: Mercury				
Client ID:	LCSW	Batch ID:	30261		RunNo:	40811				
Prep Date:	2/16/2017	Analysis Date:	2/16/2017		SeqNo:	1278649	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	80	120			

Sample ID	1702604-001BMS	SampType:	MS		TestCode:	EPA Method 7470: Mercury				
Client ID:	Non Exempt BGT	Batch ID:	30261		RunNo:	40811				
Prep Date:	2/16/2017	Analysis Date:	2/16/2017		SeqNo:	1278651	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.00020	0.005000	0.0001036	105	75	125			

Sample ID	1702604-001BMSD	SampType:	MSD		TestCode:	EPA Method 7470: Mercury				
Client ID:	Non Exempt BGT	Batch ID:	30261		RunNo:	40811				
Prep Date:	2/16/2017	Analysis Date:	2/16/2017		SeqNo:	1278652	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0056	0.00020	0.005000	0.0001036	110	75	125	3.86	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604
22-Feb-17

Client: Souder, Miller and Associates
Project: San Luis

Sample ID	MB-30292	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals				
Client ID:	PBW	Batch ID:	30292	RunNo:	40875				
Prep Date:	2/20/2017	Analysis Date:	2/21/2017	SeqNo:	1280535	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-30292	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals				
Client ID:	LCSW	Batch ID:	30292	RunNo:	40875				
Prep Date:	2/20/2017	Analysis Date:	2/21/2017	SeqNo:	1280536	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.49	0.020	0.5000	0	98.1	80	120			
Barium	0.49	0.020	0.5000	0	98.5	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.8	80	120			
Chromium	0.49	0.0060	0.5000	0	97.4	80	120			
Lead	0.48	0.0050	0.5000	0	96.7	80	120			
Selenium	0.49	0.050	0.5000	0	98.8	80	120			
Silver	0.099	0.0050	0.1000	0	98.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL Lyborrk Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
UL C Section 14 Township 23 North Range 7 West; 36.232901, -107.545978

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non-Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 72 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long , representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long , representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Crystal Higgins TITLE: Super DATE: 12/17
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 08, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Lybrook Station OrderNo.: 1702073

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/2/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Chain-of-Custody Record

Client: Souder Miller & Assoc

401 W. Broadway

Mailing Address: Farmington NM 87401

Phone #: 505 325-7535

email or Fax#: Ashley.Maxwell@souder-miller.com

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation ☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush

Project Name: Lybrook Station

Project #:

Project Manager: Ashley Maxwell, Tom Long

Sampler: Randy Watson

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.2 + CF + 0.6 = 1.8°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1702073	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals TCLP	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
2-1-17	15:50	H2O	Lybrook BGT	Various	Various	-001						X	X			X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
2-1-17	1815	Randy Watson	Chasity Walker	2/1/17	1818
2/1/17	1910	Chasity Walker		2/2/17	0800

Remarks: 8260 Full List Report TCLP Compounds AT TCLP Limits

Invoice: Enterprise cc Tom Long

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1702073 RcptNo: 1

Received by/date: RE 02/02/17
Logged By: Ashley Gallegos 2/2/2017 8:00:00 AM AG
Completed By: Ashley Gallegos 2/2/2017 8:39:12 AM AG
Reviewed By: IO 2-2-17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)
Adjusted? NO
Checked by: AJ

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702073**

08-Feb-17

Client: Souder, Miller and Associates
Project: Lybrook Station

Sample ID **MB-30031**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **30031**	RunNo: **40536**
Prep Date: **2/2/2017**	Analysis Date: **2/6/2017**	SeqNo: **1270041** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID **LCS-30031**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **30031**	RunNo: **40536**
Prep Date: **2/2/2017**	Analysis Date: **2/6/2017**	SeqNo: **1270042** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.48	0.020	0.5000	0	96.3	80	120			
Barium	0.47	0.020	0.5000	0	94.9	80	120			
Cadmium	0.47	0.0020	0.5000	0	94.1	80	120			
Chromium	0.48	0.0060	0.5000	0	95.5	80	120			
Lead	0.47	0.0050	0.5000	0	93.3	80	120			
Selenium	0.49	0.050	0.5000	0	97.4	80	120			
Silver	0.097	0.0050	0.1000	0	96.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702073**

08-Feb-17

Client: Souder, Miller and Associates
Project: Lybrook Station

Sample ID	MB-30033	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury				
Client ID:	PBW	Batch ID:	30033	RunNo:	40486				
Prep Date:	2/2/2017	Analysis Date:	2/2/2017	SeqNo:	1268703	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-30033	SampType:	LCS	TestCode:	EPA Method 7470: Mercury				
Client ID:	LCSW	Batch ID:	30033	RunNo:	40486				
Prep Date:	2/2/2017	Analysis Date:	2/2/2017	SeqNo:	1268704	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	98.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702073**

08-Feb-17

Client: Souder, Miller and Associates

Project: Lybrook Station

Sample ID **lcs-30020**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSW**	Batch ID: **30020**	RunNo: **40506**
Prep Date: **2/2/2017**	Analysis Date: **2/3/2017**	SeqNo: **1269472** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	16	0.50	20.00	0	82.0	38	154			
Benzo(a)pyrene	16	0.50	20.00	0	80.4	38.6	153			
Dibenz(a,h)anthracene	17	0.50	20.00	0	84.4	39.7	155			
Benzo(g,h,i)perylene	16	0.50	20.00	0	79.6	39.6	154			
Indeno(1,2,3-cd)pyrene	16	0.50	20.00	0	82.4	19.1	153			
Surr: N-hexadecane	60		87.60		68.9	15	176			
Surr: Benzo(e)pyrene	15		20.00		74.8	15	198			

Sample ID **lcsd-30020**	SampType: **LCSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS02**	Batch ID: **30020**	RunNo: **40506**
Prep Date: **2/2/2017**	Analysis Date: **2/3/2017**	SeqNo: **1269473** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	16	0.50	20.00	0	81.6	37.4	120	6.98	20	
1-Methylnaphthalene	16	0.50	20.00	0	78.1	39.3	121	4.05	26.8	
2-Methylnaphthalene	16	0.50	20.00	0	79.6	37.8	122	3.19	23.8	
Acenaphthylene	16	0.50	20.00	0	82.0	37	124	8.92	28.6	
Acenaphthene	17	0.50	20.00	0	83.2	35.6	123	5.56	27	
Fluorene	17	0.50	20.00	0	86.8	35.2	122	12.5	25.7	
Phenanthrene	18	0.50	20.00	0	91.4	38.8	122	6.90	20	
Anthracene	17	0.50	20.00	0	86.6	37.5	125	2.93	21.2	
Fluoranthene	19	0.50	20.00	0	95.3	37.4	131	12.2	21.8	
Pyrene	18	0.50	20.00	0	92.3	27.5	140	7.65	31.1	
Benz(a)anthracene	19	0.50	20.00	0	95.6	25.4	141	8.28	26.6	
Chrysene	18	0.50	20.00	0	92.0	33.6	155	8.03	21.2	
Benzo(b)fluoranthene	19	0.50	20.00	0	92.7	39	153	7.04	20	
Benzo(k)fluoranthene	18	0.50	20.00	0	90.6	38	154	9.97	21	
Benzo(a)pyrene	18	0.50	20.00	0	91.7	38.6	153	13.1	24.8	
Dibenz(a,h)anthracene	19	0.50	20.00	0	93.4	39.7	155	10.1	26	
Benzo(g,h,i)perylene	18	0.50	20.00	0	88.4	39.6	154	10.5	20	
Indeno(1,2,3-cd)pyrene	19	0.50	20.00	0	92.7	19.1	153	11.8	20	
Surr: N-hexadecane	62		87.60		71.2	15	176	0	0	
Surr: Benzo(e)pyrene	15		20.00		76.4	15	198	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702073**

08-Feb-17

Client: Souder, Miller and Associates
Project: Lybrook Station

Sample ID **mb-30020**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBW**	Batch ID: **30020**	RunNo: **40506**
Prep Date: **2/2/2017**	Analysis Date: **2/3/2017**	SeqNo: **1269471** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	65		87.60		74.5	15	176			
Surr: Benzo(e)pyrene	16		20.00		81.8	15	198			

Sample ID **lcs-30020**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSW**	Batch ID: **30020**	RunNo: **40506**
Prep Date: **2/2/2017**	Analysis Date: **2/3/2017**	SeqNo: **1269472** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	15	0.50	20.00	0	76.1	37.4	120			
1-Methylnaphthalene	15	0.50	20.00	0	75.0	39.3	121			
2-Methylnaphthalene	15	0.50	20.00	0	77.1	37.8	122			
Acenaphthylene	15	0.50	20.00	0	75.0	37	124			
Acenaphthene	16	0.50	20.00	0	78.7	35.6	123			
Fluorene	15	0.50	20.00	0	76.6	35.2	122			
Phenanthrene	17	0.50	20.00	0	85.3	38.8	122			
Anthracene	17	0.50	20.00	0	84.1	37.5	125			
Fluoranthene	17	0.50	20.00	0	84.3	37.4	131			
Pyrene	17	0.50	20.00	0	85.5	27.5	140			
Benz(a)anthracene	18	0.50	20.00	0	88.0	25.4	141			
Chrysene	17	0.50	20.00	0	84.9	33.6	155			
Benzo(b)fluoranthene	17	0.50	20.00	0	86.4	39	153			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702073**

08-Feb-17

Client: Souder, Miller and Associates

Project: Lybrook Station

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W40507**	RunNo: **40507**
Prep Date:	Analysis Date: **2/3/2017**	SeqNo: **1269583** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702073

08-Feb-17

Client: Souder, Miller and Associates

Project: Lybrook Station

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: W40507	RunNo: 40507							
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269582	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: W40507	RunNo: 40507							
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269583	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.3	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702073**

08-Feb-17

Client: Souder, Miller and Associates
Project: Lybrook Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W40507**	RunNo: **40507**
Prep Date:	Analysis Date: **2/3/2017**	SeqNo: **1269582** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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Analytical Report
Lab Order **1702073**
Date Reported: **2/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Lybrook Station
Lab ID: 1702073-001 **Matrix:** AQUEOUS

Client Sample ID: Lybrook BGT
Collection Date: 2/1/2017 3:10:00 PM
Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
n-Butylbenzene	ND	0.60		mg/L	200	2/3/2017 8:10:07 PM	W40507
n-Propylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
sec-Butylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Styrene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
tert-Butylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	2/3/2017 8:10:07 PM	W40507
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
trans-1,2-DCE	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,1,1-Trichloroethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,1,2-Trichloroethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Trichloroethene (TCE)	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Trichlorofluoromethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2,3-Trichloropropane	ND	0.40		mg/L	200	2/3/2017 8:10:07 PM	W40507
Vinyl chloride	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Xylenes, Total	ND	0.30		mg/L	200	2/3/2017 8:10:07 PM	W40507
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	200	2/3/2017 8:10:07 PM	W40507
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	200	2/3/2017 8:10:07 PM	W40507
Surr: Dibromofluoromethane	103	70-130		%Rec	200	2/3/2017 8:10:07 PM	W40507
Surr: Toluene-d8	110	70-130		%Rec	200	2/3/2017 8:10:07 PM	W40507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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Analytical Report
Lab Order **1702073**
Date Reported: **2/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Lybrook BGT
Project: Lybrook Station
Collection Date: 2/1/2017 3:10:00 PM
Lab ID: 1702073-001 **Matrix:** AQUEOUS **Received Date:** 2/2/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Naphthalene	ND	0.40		mg/L	200	2/3/2017 8:10:07 PM	W40507
1-Methylnaphthalene	ND	0.80		mg/L	200	2/3/2017 8:10:07 PM	W40507
2-Methylnaphthalene	ND	0.80		mg/L	200	2/3/2017 8:10:07 PM	W40507
Acetone	ND	2.0		mg/L	200	2/3/2017 8:10:07 PM	W40507
Bromobenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Bromodichloromethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Bromoform	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Bromomethane	ND	0.60		mg/L	200	2/3/2017 8:10:07 PM	W40507
2-Butanone	ND	2.0		mg/L	200	2/3/2017 8:10:07 PM	W40507
Carbon disulfide	ND	2.0		mg/L	200	2/3/2017 8:10:07 PM	W40507
Carbon Tetrachloride	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Chlorobenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Chloroethane	ND	0.40		mg/L	200	2/3/2017 8:10:07 PM	W40507
Chloroform	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Chloromethane	ND	0.60		mg/L	200	2/3/2017 8:10:07 PM	W40507
2-Chlorotoluene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
4-Chlorotoluene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
cis-1,2-DCE	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	2/3/2017 8:10:07 PM	W40507
Dibromochloromethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Dibromomethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2-Dichlorobenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,3-Dichlorobenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,4-Dichlorobenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Dichlorodifluoromethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,1-Dichloroethane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,1-Dichloroethene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2-Dichloropropane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,3-Dichloropropane	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
2,2-Dichloropropane	ND	0.40		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,1-Dichloropropene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Hexachlorobutadiene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
2-Hexanone	ND	2.0		mg/L	200	2/3/2017 8:10:07 PM	W40507
Isopropylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
4-Isopropyltoluene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
4-Methyl-2-pentanone	ND	2.0		mg/L	200	2/3/2017 8:10:07 PM	W40507
Methylene Chloride	ND	0.60		mg/L	200	2/3/2017 8:10:07 PM	W40507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702073**
Date Reported: **2/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Lybrook BGT
Project: Lybrook Station
Collection Date: 2/1/2017 3:10:00 PM
Lab ID: 1702073-001 **Matrix:** AQUEOUS **Received Date:** 2/2/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	0.00086	0.00020		mg/L	1	2/2/2017 5:42:32 PM	30033
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **pmf**	
Arsenic	ND	0.020		mg/L	1	2/6/2017 12:02:31 PM	30031
Barium	0.050	0.020		mg/L	1	2/6/2017 12:02:31 PM	30031
Cadmium	ND	0.0020		mg/L	1	2/6/2017 12:02:31 PM	30031
Chromium	ND	0.0060		mg/L	1	2/6/2017 12:02:31 PM	30031
Lead	ND	0.0050		mg/L	1	2/6/2017 12:02:31 PM	30031
Selenium	ND	0.050		mg/L	1	2/6/2017 12:02:31 PM	30031
Silver	ND	0.0050		mg/L	1	2/6/2017 12:02:31 PM	30031
EPA METHOD 8270C: PAHS						Analyst: **JDC**	
Naphthalene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
1-Methylnaphthalene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
2-Methylnaphthalene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Acenaphthylene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Acenaphthene	0.62	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Fluorene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Phenanthrene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Anthracene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Fluoranthene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Pyrene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benz(a)anthracene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Chrysene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(b)fluoranthene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(k)fluoranthene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(a)pyrene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Dibenz(a,h)anthracene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(g,h,i)perylene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Indeno(1,2,3-cd)pyrene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Surr: N-hexadecane	88.8	15-176		%Rec	1	2/3/2017 12:41:33 PM	30020
Surr: Benzo(e)pyrene	75.5	15-198	D	%Rec	5	2/3/2017 1:06:49 PM	30020
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.50		mg/L	200	2/3/2017 8:10:07 PM	W40507
Toluene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Ethylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W40507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 08, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Huerfano Station OrderNo.: 1702072

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/2/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1702072**
Date Reported: **2/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Huerfano BGT
Project: Huerfano Station
Collection Date: 2/1/2017 1:50:00 PM
Lab ID: 1702072-001 **Matrix:** AQUEOUS **Received Date:** 2/2/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	ND	0.00020		mg/L	1	2/2/2017 5:40:31 PM	30033
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **pmf**	
Arsenic	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Barium	ND	100		mg/L	1	2/6/2017 11:55:58 AM	30031
Cadmium	ND	1.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Chromium	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Lead	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Selenium	ND	1.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Silver	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
EPA METHOD 8270C: PAHS						Analyst: **JDC**	
Naphthalene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
1-Methylnaphthalene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
2-Methylnaphthalene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Acenaphthylene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Acenaphthene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Fluorene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Phenanthrene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Anthracene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Fluoranthene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Pyrene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Benz(a)anthracene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Chrysene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(b)fluoranthene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(k)fluoranthene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(a)pyrene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Dibenz(a,h)anthracene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(g,h,i)perylene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Indeno(1,2,3-cd)pyrene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
Surr: N-hexadecane	73.6	15-176	D	%Rec	1	2/3/2017 12:17:25 PM	30020
Surr: Benzo(e)pyrene	74.3	15-198	D	%Rec	1	2/3/2017 12:17:25 PM	30020
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.50		mg/L	200	2/3/2017 6:43:02 PM	W40507
Toluene	0.23	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Ethylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702072**
Date Reported: **2/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Huerfano Station
Lab ID: 1702072-001 **Matrix:** AQUEOUS

Client Sample ID: Huerfano BGT
Collection Date: 2/1/2017 1:50:00 PM
Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Naphthalene	ND	0.40		mg/L	200	2/3/2017 6:43:02 PM	W40507
1-Methylnaphthalene	ND	0.80		mg/L	200	2/3/2017 6:43:02 PM	W40507
2-Methylnaphthalene	ND	0.80		mg/L	200	2/3/2017 6:43:02 PM	W40507
Acetone	ND	2.0		mg/L	200	2/3/2017 6:43:02 PM	W40507
Bromobenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Bromodichloromethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Bromoform	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Bromomethane	ND	0.60		mg/L	200	2/3/2017 6:43:02 PM	W40507
2-Butanone	ND	2.0		mg/L	200	2/3/2017 6:43:02 PM	W40507
Carbon disulfide	ND	2.0		mg/L	200	2/3/2017 6:43:02 PM	W40507
Carbon Tetrachloride	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Chlorobenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Chloroethane	ND	0.40		mg/L	200	2/3/2017 6:43:02 PM	W40507
Chloroform	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Chloromethane	ND	0.60		mg/L	200	2/3/2017 6:43:02 PM	W40507
2-Chlorotoluene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
4-Chlorotoluene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
cis-1,2-DCE	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	2/3/2017 6:43:02 PM	W40507
Dibromochloromethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Dibromomethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2-Dichlorobenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,3-Dichlorobenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,4-Dichlorobenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Dichlorodifluoromethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,1-Dichloroethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,1-Dichloroethene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2-Dichloropropane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,3-Dichloropropane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
2,2-Dichloropropane	ND	0.40		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,1-Dichloropropene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Hexachlorobutadiene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
2-Hexanone	ND	2.0		mg/L	200	2/3/2017 6:43:02 PM	W40507
Isopropylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
4-Isopropyltoluene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
4-Methyl-2-pentanone	ND	2.0		mg/L	200	2/3/2017 6:43:02 PM	W40507
Methylene Chloride	ND	0.60		mg/L	200	2/3/2017 6:43:02 PM	W40507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1702072**
Date Reported: **2/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Huerfano Station
Lab ID: 1702072-001 **Matrix:** AQUEOUS

Client Sample ID: Huerfano BGT
Collection Date: 2/1/2017 1:50:00 PM
Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: **DJF**
n-Butylbenzene	ND	0.60		mg/L	200	2/3/2017 6:43:02 PM	W40507
n-Propylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
sec-Butylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Styrene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
tert-Butylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	2/3/2017 6:43:02 PM	W40507
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
trans-1,2-DCE	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,1,1-Trichloroethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,1,2-Trichloroethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Trichloroethene (TCE)	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Trichlorofluoromethane	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
1,2,3-Trichloropropane	ND	0.40		mg/L	200	2/3/2017 6:43:02 PM	W40507
Vinyl chloride	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W40507
Xylenes, Total	ND	0.30		mg/L	200	2/3/2017 6:43:02 PM	W40507
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	200	2/3/2017 6:43:02 PM	W40507
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	200	2/3/2017 6:43:02 PM	W40507
Surr: Dibromofluoromethane	103	70-130		%Rec	200	2/3/2017 6:43:02 PM	W40507
Surr: Toluene-d8	109	70-130		%Rec	200	2/3/2017 6:43:02 PM	W40507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072

08-Feb-17

Client: Souder, Miller and Associates

Project: Huerfano Station

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: W40507	RunNo: 40507
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269582 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072

08-Feb-17

Client: Souder, Miller and Associates

Project: Huerfano Station

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: W40507	RunNo: 40507						
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269582	Units: µg/L					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: W40507	RunNo: 40507						
Prep Date:	Analysis Date: 2/3/2017	SeqNo: 1269583	Units: µg/L					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.3	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072
08-Feb-17

Client: Souder, Miller and Associates
Project: Huerfano Station

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W40507**	RunNo: **40507**
Prep Date:	Analysis Date: **2/3/2017**	SeqNo: **1269583** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID **1702072-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Huerfano BGT**	Batch ID: **W40507**	RunNo: **40507**
Prep Date:	Analysis Date: **2/3/2017**	SeqNo: **1269585** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.2	0.20	4.000	0.06920	103	70	130			
Toluene	4.5	0.20	4.000	0.2318	107	70	130			
Chlorobenzene	4.2	0.20	4.000	0	105	70	130			
1,1-Dichloroethene	4.5	0.20	4.000	0	112	70	130			
Trichloroethene (TCE)	4.2	0.20	4.000	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	2.1		2.000		105	70	130			
Surr: 4-Bromofluorobenzene	1.9		2.000		96.4	70	130			
Surr: Dibromofluoromethane	2.1		2.000		103	70	130			
Surr: Toluene-d8	2.1		2.000		106	70	130			

Sample ID **1702072-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Huerfano BGT**	Batch ID: **W40507**	RunNo: **40507**
Prep Date:	Analysis Date: **2/3/2017**	SeqNo: **1269586** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.0	0.20	4.000	0.06920	98.2	70	130	4.74	20	
Toluene	4.4	0.20	4.000	0.2318	105	70	130	2.05	20	
Chlorobenzene	4.1	0.20	4.000	0	103	70	130	2.03	20	
1,1-Dichloroethene	4.2	0.20	4.000	0	106	70	130	5.83	20	
Trichloroethene (TCE)	3.9	0.20	4.000	0	97.3	70	130	6.47	20	
Surr: 1,2-Dichloroethane-d4	2.2		2.000		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	1.9		2.000		93.5	70	130	0	0	
Surr: Dibromofluoromethane	2.1		2.000		103	70	130	0	0	
Surr: Toluene-d8	2.2		2.000		108	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072

08-Feb-17

Client: Souder, Miller and Associates

Project: Huerfano Station

Sample ID mb-30020	SampType: MBLK	TestCode: EPA Method 8270C: PAHs
Client ID: PBW	Batch ID: 30020	RunNo: 40506
Prep Date: 2/2/2017	Analysis Date: 2/3/2017	SeqNo: 1269471 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	65		87.60		74.5	15	176			
Surr: Benzo(e)pyrene	16		20.00		81.8	15	198			

Sample ID lcs-30020	SampType: LCS	TestCode: EPA Method 8270C: PAHs
Client ID: LCSW	Batch ID: 30020	RunNo: 40506
Prep Date: 2/2/2017	Analysis Date: 2/3/2017	SeqNo: 1269472 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	15	0.50	20.00	0	76.1	37.4	120			
1-Methylnaphthalene	15	0.50	20.00	0	75.0	39.3	121			
2-Methylnaphthalene	15	0.50	20.00	0	77.1	37.8	122			
Acenaphthylene	15	0.50	20.00	0	75.0	37	124			
Acenaphthene	16	0.50	20.00	0	78.7	35.6	123			
Fluorene	15	0.50	20.00	0	76.6	35.2	122			
Phenanthrene	17	0.50	20.00	0	85.3	38.8	122			
Anthracene	17	0.50	20.00	0	84.1	37.5	125			
Fluoranthene	17	0.50	20.00	0	84.3	37.4	131			
Pyrene	17	0.50	20.00	0	85.5	27.5	140			
Benz(a)anthracene	18	0.50	20.00	0	88.0	25.4	141			
Chrysene	17	0.50	20.00	0	84.9	33.6	155			
Benzo(b)fluoranthene	17	0.50	20.00	0	86.4	39	153			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072
08-Feb-17

Client: Souder, Miller and Associates
Project: Huerfano Station

Sample ID	lcs-30020	SampType:	LCS		TestCode:	EPA Method 8270C: PAHs				
Client ID:	LCSW	Batch ID:	30020		RunNo:	40506				
Prep Date:	2/2/2017	Analysis Date:	2/3/2017		SeqNo:	1269472	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	16	0.50	20.00	0	82.0	38	154			
Benzo(a)pyrene	16	0.50	20.00	0	80.4	38.6	153			
Dibenz(a,h)anthracene	17	0.50	20.00	0	84.4	39.7	155			
Benzo(g,h,i)perylene	16	0.50	20.00	0	79.6	39.6	154			
Indeno(1,2,3-cd)pyrene	16	0.50	20.00	0	82.4	19.1	153			
Surr: N-hexadecane	60		87.60		68.9	15	176			
Surr: Benzo(e)pyrene	15		20.00		74.8	15	198			

Sample ID	lcsd-30020	SampType:	LCSD		TestCode:	EPA Method 8270C: PAHs				
Client ID:	LCSS02	Batch ID:	30020		RunNo:	40506				
Prep Date:	2/2/2017	Analysis Date:	2/3/2017		SeqNo:	1269473	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	16	0.50	20.00	0	81.6	37.4	120	6.98	20	
1-Methylnaphthalene	16	0.50	20.00	0	78.1	39.3	121	4.05	26.8	
2-Methylnaphthalene	16	0.50	20.00	0	79.6	37.8	122	3.19	23.8	
Acenaphthylene	16	0.50	20.00	0	82.0	37	124	8.92	28.6	
Acenaphthene	17	0.50	20.00	0	83.2	35.6	123	5.56	27	
Fluorene	17	0.50	20.00	0	86.8	35.2	122	12.5	25.7	
Phenanthrene	18	0.50	20.00	0	91.4	38.8	122	6.90	20	
Anthracene	17	0.50	20.00	0	86.6	37.5	125	2.93	21.2	
Fluoranthene	19	0.50	20.00	0	95.3	37.4	131	12.2	21.8	
Pyrene	18	0.50	20.00	0	92.3	27.5	140	7.65	31.1	
Benz(a)anthracene	19	0.50	20.00	0	95.6	25.4	141	8.28	26.6	
Chrysene	18	0.50	20.00	0	92.0	33.6	155	8.03	21.2	
Benzo(b)fluoranthene	19	0.50	20.00	0	92.7	39	153	7.04	20	
Benzo(k)fluoranthene	18	0.50	20.00	0	90.6	38	154	9.97	21	
Benzo(a)pyrene	18	0.50	20.00	0	91.7	38.6	153	13.1	24.8	
Dibenz(a,h)anthracene	19	0.50	20.00	0	93.4	39.7	155	10.1	26	
Benzo(g,h,i)perylene	18	0.50	20.00	0	88.4	39.6	154	10.5	20	
Indeno(1,2,3-cd)pyrene	19	0.50	20.00	0	92.7	19.1	153	11.8	20	
Surr: N-hexadecane	62		87.60		71.2	15	176	0	0	
Surr: Benzo(e)pyrene	15		20.00		76.4	15	198	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072

08-Feb-17

Client: Souder, Miller and Associates

Project: Huerfano Station

Sample ID	MB-30033	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury					
Client ID:	PBW	Batch ID:	30033	RunNo:	40486					
Prep Date:	2/2/2017	Analysis Date:	2/2/2017	SeqNo:	1268703	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-30033	SampType:	LCS	TestCode:	EPA Method 7470: Mercury					
Client ID:	LCSW	Batch ID:	30033	RunNo:	40486					
Prep Date:	2/2/2017	Analysis Date:	2/2/2017	SeqNo:	1268704	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	98.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072

08-Feb-17

Client: Souder, Miller and Associates

Project: Huerfano Station

Sample ID	MB-30031	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals				
Client ID:	PBW	Batch ID:	30031	RunNo:	40536				
Prep Date:	2/2/2017	Analysis Date:	2/6/2017	SeqNo:	1270041	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-30031	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals				
Client ID:	LCSW	Batch ID:	30031	RunNo:	40536				
Prep Date:	2/2/2017	Analysis Date:	2/6/2017	SeqNo:	1270042	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.48	0.020	0.5000	0	96.3	80	120			
Barium	0.47	0.020	0.5000	0	94.9	80	120			
Cadmium	0.47	0.0020	0.5000	0	94.1	80	120			
Chromium	0.48	0.0060	0.5000	0	95.5	80	120			
Lead	0.47	0.0050	0.5000	0	93.3	80	120			
Selenium	0.49	0.050	0.5000	0	97.4	80	120			
Silver	0.097	0.0050	0.1000	0	96.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1702072 RcptNo: 1

Received by/date: RE 02/02/17

Logged By: Ashley Gallegos 2/2/2017 8:00:00 AM

Completed By: Ashley Gallegos 2/2/2017 8:33:52 AM

Reviewed By: JO 2-2-17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted? NO

Checked by: AJ

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

4/5/17 4/7

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Hart Canyon #1 Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 29 Township 31 North Range 10 West; 36.872934, -107.900317, San Juan County, NM

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 100 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 95 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 4-5-17, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Gayle Higgins TITLE: Supv DATE: 12/17
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

4/5/17

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 04, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Hart Canyon 1 OrderNo.: 1703B67

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1703B67**
Date Reported: **4/4/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Hart Canyon 1
Lab ID: 1703B67-001 **Matrix:** AQUEOUS

Client Sample ID: South BGT
Collection Date: 3/21/2017 10:50:00 AM
Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Naphthalene	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
1-Methylnaphthalene	ND	0.80		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Methylnaphthalene	ND	0.80		mg/L	200	3/24/2017 2:59:01 PM	R41652
Acetone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromodichloromethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromoform	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromomethane	ND	0.60		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Butanone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Carbon disulfide	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Carbon Tetrachloride	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chloroethane	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chloroform	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chloromethane	ND	0.60		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Chlorotoluene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
4-Chlorotoluene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
cis-1,2-DCE	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
Dibromochloromethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Dibromomethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,2-Dichlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,3-Dichlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,4-Dichlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Dichlorodifluoromethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,1-Dichloroethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,1-Dichloroethene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,2-Dichloropropane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,3-Dichloropropane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
2,2-Dichloropropane	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,1-Dichloropropene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Hexachlorobutadiene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Hexanone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Isopropylbenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
4-Isopropyltoluene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
4-Methyl-2-pentanone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Methylene Chloride	ND	0.60		mg/L	200	3/24/2017 2:59:01 PM	R41652

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67
04-Apr-17

Client: Souder. Miller and Associates
Project: Hart Canyon 1

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: R41652	RunNo: 41652
Prep Date:	Analysis Date: 3/24/2017	SeqNo: 1306625 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67
04-Apr-17

Client: Souder. Miller and Associates
Project: Hart Canyon 1

Sample ID 100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID: LCSW	Batch ID: R41652			RunNo: 41652					
Prep Date:	Analysis Date: 3/24/2017			SeqNo: 1306626	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

04-Apr-17

Client: Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID	lcsd-30877	SampType:	LCSD		TestCode:	EPA Method 8270C: PAHs				
Client ID:	LCSS02	Batch ID:	30877		RunNo:	41783				
Prep Date:	3/24/2017	Analysis Date:	3/30/2017		SeqNo:	1311523	Units:	µg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	18	0.50	20.00	0	92.3	38	154	10.1	21	
Benzo(a)pyrene	18	0.50	20.00	0	90.7	38.6	153	12.7	24.8	
Dibenz(a,h)anthracene	18	0.50	20.00	0	88.8	39.7	155	5.20	26	
Benzo(g,h,i)perylene	18	0.50	20.00	0	91.9	39.6	154	5.13	20	
Indeno(1,2,3-cd)pyrene	18	0.50	20.00	0	90.7	19.1	153	6.37	20	
Surr: N-hexadecane	73		87.60		83.1	15	176	0	0	
Surr: Benzo(e)pyrene	18		20.00		90.7	15	198	0	0	

Sample ID	mb-30877	SampType:	MBLK		TestCode:	EPA Method 8270C: PAHs				
Client ID:	PBW	Batch ID:	30877		RunNo:	41783				
Prep Date:	3/24/2017	Analysis Date:	3/30/2017		SeqNo:	1311524	Units:	µg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	61		87.60		70.0	15	176			
Surr: Benzo(e)pyrene	13		20.00		65.5	15	198			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67
04-Apr-17

Client: Souder. Miller and Associates
Project: Hart Canyon 1

Sample ID	MB-30980	SampType:	MBLK	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	PBW	Batch ID:	30980	RunNo:	41780					
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1311618	Units:	mg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	LCS-30980	SampType:	LCS	TestCode:	EPA 6010B: Total Recoverable Metals					
Client ID:	LCSW	Batch ID:	30980	RunNo:	41780					
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1311619	Units:	mg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.56	0.020	0.5000	0	111	80	120			
Barium	0.51	0.020	0.5000	0	102	80	120			
Cadmium	0.50	0.0020	0.5000	0	99.5	80	120			
Chromium	0.52	0.0060	0.5000	0	104	80	120			
Lead	0.51	0.0050	0.5000	0	103	80	120			
Selenium	0.65	0.050	0.5000	0	131	80	120			S
Silver	0.11	0.0050	0.1000	0	112	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W. Broadway Farmington NM 87401

Phone #: 505 325-7535

email or Fax#: Ashley.Maxwell@SouderMiller.com

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush

Project Name: Hart Canyon #1

Project #:

Project Manager: Ashley Maxwell, Tom Long

Sampler: Randy Watson

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1703B67	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270SIMS)	RCRA 8 Metals TCLP	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3-21-17	10:50	H_2O	South BGT	VAmbers	VAmbers	001						X	X			X						

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
3/22/17	1640	Randy Watson	[illegible]	3/22/17	1640	
3/22/17	1824	[illegible]	[illegible]	03/23/17	0720	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

4/5/17 4/7

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Hart Canyon #1 Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 29 Township 31 North Range 10 West; 36.872934, -107.900317, San Juan County, NM

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 100 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 95 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 4-5-17, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Gayle Higgins TITLE: Supv DATE: 12/17
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

4/5/17

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 04, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Hart Canyon 1 OrderNo.: 1703B67

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1703B67**
Date Reported: **4/4/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Hart Canyon 1
Lab ID: 1703B67-001
Matrix: AQUEOUS
Client Sample ID: South BGT
Collection Date: 3/21/2017 10:50:00 AM
Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Naphthalene	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
1-Methylnaphthalene	ND	0.80		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Methylnaphthalene	ND	0.80		mg/L	200	3/24/2017 2:59:01 PM	R41652
Acetone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromodichloromethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromoform	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Bromomethane	ND	0.60		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Butanone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Carbon disulfide	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Carbon Tetrachloride	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chloroethane	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chloroform	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Chloromethane	ND	0.60		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Chlorotoluene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
4-Chlorotoluene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
cis-1,2-DCE	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
Dibromochloromethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Dibromomethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,2-Dichlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,3-Dichlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,4-Dichlorobenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Dichlorodifluoromethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,1-Dichloroethane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,1-Dichloroethene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,2-Dichloropropane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,3-Dichloropropane	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
2,2-Dichloropropane	ND	0.40		mg/L	200	3/24/2017 2:59:01 PM	R41652
1,1-Dichloropropene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
Hexachlorobutadiene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
2-Hexanone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Isopropylbenzene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
4-Isopropyltoluene	ND	0.20		mg/L	200	3/24/2017 2:59:01 PM	R41652
4-Methyl-2-pentanone	ND	2.0		mg/L	200	3/24/2017 2:59:01 PM	R41652
Methylene Chloride	ND	0.60		mg/L	200	3/24/2017 2:59:01 PM	R41652

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67
04-Apr-17

Client: Souder. Miller and Associates
Project: Hart Canyon 1

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: R41652	RunNo: 41652
Prep Date:	Analysis Date: 3/24/2017	SeqNo: 1306625 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

04-Apr-17

Client: Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R41652**	RunNo: **41652**
Prep Date:	Analysis Date: **3/24/2017**	SeqNo: **1306626** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

04-Apr-17

Client: Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID	lcsd-30877	SampType:	LCSD		TestCode:	EPA Method 8270C: PAHs				
Client ID:	LCSS02	Batch ID:	30877		RunNo:	41783				
Prep Date:	3/24/2017	Analysis Date:	3/30/2017		SeqNo:	1311523	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	18	0.50	20.00	0	92.3	38	154	10.1	21	
Benzo(a)pyrene	18	0.50	20.00	0	90.7	38.6	153	12.7	24.8	
Dibenz(a,h)anthracene	18	0.50	20.00	0	88.8	39.7	155	5.20	26	
Benzo(g,h,i)perylene	18	0.50	20.00	0	91.9	39.6	154	5.13	20	
Indeno(1,2,3-cd)pyrene	18	0.50	20.00	0	90.7	19.1	153	6.37	20	
Surr: N-hexadecane	73		87.60		83.1	15	176	0	0	
Surr: Benzo(e)pyrene	18		20.00		90.7	15	198	0	0	

Sample ID	mb-30877	SampType:	MBLK		TestCode:	EPA Method 8270C: PAHs				
Client ID:	PBW	Batch ID:	30877		RunNo:	41783				
Prep Date:	3/24/2017	Analysis Date:	3/30/2017		SeqNo:	1311524	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	61		87.60		70.0	15	176			
Surr: Benzo(e)pyrene	13		20.00		65.5	15	198			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703B67**

04-Apr-17

Client: Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID	**MB-30980**	SampType: **MBLK**		TestCode: **EPA 6010B: Total Recoverable Metals**						
Client ID:	**PBW**	Batch ID: **30980**		RunNo: **41780**						
Prep Date:	**3/30/2017**	Analysis Date: **3/31/2017**		SeqNo: **1311618**		Units: **mg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	**LCS-30980**	SampType: **LCS**		TestCode: **EPA 6010B: Total Recoverable Metals**						
Client ID:	**LCSW**	Batch ID: **30980**		RunNo: **41780**						
Prep Date:	**3/30/2017**	Analysis Date: **3/31/2017**		SeqNo: **1311619**		Units: **mg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.56	0.020	0.5000	0	111	80	120			
Barium	0.51	0.020	0.5000	0	102	80	120			
Cadmium	0.50	0.0020	0.5000	0	99.5	80	120			
Chromium	0.52	0.0060	0.5000	0	104	80	120			
Lead	0.51	0.0050	0.5000	0	103	80	120			
Selenium	0.65	0.050	0.5000	0	131	80	120			S
Silver	0.11	0.0050	0.1000	0	112	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W. Broadway Farmington NM 87401

Phone #: 505 325-7535

email or Fax#: Ashley.Maxwell@SouderMiller.com

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush

Project Name: Hart Canyon #1

Project #:

Project Manager: Ashley Maxwell, Tom Long

Sampler: Randy Watson

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1703B67	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals TCLP	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3-21-17	10:50	H_2O	South BGT	3 Various	3 Various	001						X	X			X						

Analysis Request

Remarks:

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/22/17	1640	Randy Watson	[illegible]	3/22/17	1640
3/22/17	1824	[illegible]	[illegible]	03/23/17	0720

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
San Juan Manzanares Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 17 Township 29 North Range 9 West; 36.726358, -107.794560, San Juan County, NM

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 (bbls) Known Volume (to be entered by the operator at the end of the haul) 137 yd^3 (bbls)

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long) , representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) , representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Various Apporved Trucking

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Cheye Higgins TITLE: Super DATE: 12/17
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 07, 2017

Ashley Maxwell

Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Manzanares SJ OrderNo.: 1705955

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1705955**
Date Reported: **6/7/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Manzanares SJ
Lab ID: 1705955-001 **Matrix:** AQUEOUS

Client Sample ID: Manzanares BGT
Collection Date: 5/17/2017 12:52:00 PM
Received Date: 5/18/2017 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **MED**	
Mercury	0.00020	0.00020		mg/L	1	5/31/2017 12:08:38 PM	32032
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **MED**	
Arsenic	ND	5.0		mg/L	1	5/25/2017 9:08:12 AM	31927
Barium	ND	100		mg/L	1	5/25/2017 9:08:12 AM	31927
Cadmium	ND	1.0		mg/L	1	5/25/2017 9:08:12 AM	31927
Chromium	ND	5.0		mg/L	1	5/25/2017 9:08:12 AM	31927
Lead	ND	5.0		mg/L	1	5/25/2017 9:08:12 AM	31927
Selenium	ND	1.0		mg/L	1	5/25/2017 9:08:12 AM	31927
Silver	ND	5.0		mg/L	1	5/25/2017 9:08:12 AM	31927
EPA METHOD 8270C: PAHS						Analyst: **DAM**	
Naphthalene	0.56	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
1-Methylnaphthalene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
2-Methylnaphthalene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Acenaphthylene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Acenaphthene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Fluorene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Phenanthrene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Anthracene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Fluoranthene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Pyrene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Benz(a)anthracene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Chrysene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Benzo(b)fluoranthene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Benzo(k)fluoranthene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Benzo(a)pyrene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Dibenz(a,h)anthracene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Benzo(g,h,i)perylene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Indeno(1,2,3-cd)pyrene	ND	0.50		µg/L	1	5/24/2017 2:35:48 PM	31811
Surr: N-hexadecane	81.9	15-176		%Rec	1	5/24/2017 2:35:48 PM	31811
Surr: Benzo(e)pyrene	86.5	15-198		%Rec	1	5/24/2017 2:35:48 PM	31811
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.50		mg/L	200	5/22/2017 1:55:00 PM	R42948
Toluene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Ethylbenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1705955**
Date Reported: **6/7/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Manzanares SJ
Lab ID: 1705955-001 **Matrix:** AQUEOUS

Client Sample ID: Manzanares BGT
Collection Date: 5/17/2017 12:52:00 PM
Received Date: 5/18/2017 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Naphthalene	ND	0.40		mg/L	200	5/22/2017 1:55:00 PM	R42948
1-Methylnaphthalene	ND	0.80		mg/L	200	5/22/2017 1:55:00 PM	R42948
2-Methylnaphthalene	ND	0.80		mg/L	200	5/22/2017 1:55:00 PM	R42948
Acetone	ND	2.0		mg/L	200	5/22/2017 1:55:00 PM	R42948
Bromobenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Bromodichloromethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Bromoform	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Bromomethane	ND	0.60		mg/L	200	5/22/2017 1:55:00 PM	R42948
2-Butanone	ND	2.0		mg/L	200	5/22/2017 1:55:00 PM	R42948
Carbon disulfide	ND	2.0		mg/L	200	5/22/2017 1:55:00 PM	R42948
Carbon Tetrachloride	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Chlorobenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Chloroethane	ND	0.40		mg/L	200	5/22/2017 1:55:00 PM	R42948
Chloroform	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Chloromethane	ND	0.60		mg/L	200	5/22/2017 1:55:00 PM	R42948
2-Chlorotoluene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
4-Chlorotoluene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
cis-1,2-DCE	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	5/22/2017 1:55:00 PM	R42948
Dibromochloromethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Dibromomethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2-Dichlorobenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,3-Dichlorobenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,4-Dichlorobenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Dichlorodifluoromethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,1-Dichloroethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,1-Dichloroethene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2-Dichloropropane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,3-Dichloropropane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
2,2-Dichloropropane	ND	0.40		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,1-Dichloropropene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Hexachlorobutadiene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
2-Hexanone	ND	2.0		mg/L	200	5/22/2017 1:55:00 PM	R42948
Isopropylbenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
4-Isopropyltoluene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
4-Methyl-2-pentanone	ND	2.0		mg/L	200	5/22/2017 1:55:00 PM	R42948
Methylene Chloride	ND	0.60		mg/L	200	5/22/2017 1:55:00 PM	R42948

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1705955**
Date Reported: **6/7/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Manzanares SJ
Lab ID: 1705955-001 **Matrix:** AQUEOUS

Client Sample ID: Manzanares BGT
Collection Date: 5/17/2017 12:52:00 PM
Received Date: 5/18/2017 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
n-Butylbenzene	ND	0.60		mg/L	200	5/22/2017 1:55:00 PM	R42948
n-Propylbenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
sec-Butylbenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Styrene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
tert-Butylbenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	5/22/2017 1:55:00 PM	R42948
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
trans-1,2-DCE	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,1,1-Trichloroethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,1,2-Trichloroethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Trichloroethene (TCE)	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Trichlorofluoromethane	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
1,2,3-Trichloropropane	ND	0.40		mg/L	200	5/22/2017 1:55:00 PM	R42948
Vinyl chloride	ND	0.20		mg/L	200	5/22/2017 1:55:00 PM	R42948
Xylenes, Total	ND	0.30		mg/L	200	5/22/2017 1:55:00 PM	R42948
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	200	5/22/2017 1:55:00 PM	R42948
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	200	5/22/2017 1:55:00 PM	R42948
Surr: Dibromofluoromethane	110	70-130		%Rec	200	5/22/2017 1:55:00 PM	R42948
Surr: Toluene-d8	103	70-130		%Rec	200	5/22/2017 1:55:00 PM	R42948

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R42948**	RunNo: **42948**
Prep Date:	Analysis Date: **5/22/2017**	SeqNo: **1351501** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.8	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Ethylbenzene	21	1.0	20.00	0	104	70	130			
Methyl tert-butyl ether (MTBE)	35	1.0	40.00	0	88.3	70	130			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	102	70	130			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	99.4	70	130			
1,2-Dichloroethane (EDC)	18	1.0	20.00	0	90.6	62.2	143			
1,2-Dibromoethane (EDB)	19	1.0	20.00	0	95.2	70	130			
Naphthalene	18	2.0	20.00	0	87.8	70	130			
1-Methylnaphthalene	17	4.0	20.00	0	85.9	60	140			
2-Methylnaphthalene	14	4.0	20.00	0	67.6	60	140			
Acetone	36	10	40.00	0	90.4	60	140			
Bromobenzene	20	1.0	20.00	0	102	70	130			
Bromodichloromethane	19	1.0	20.00	0	96.3	70	130			
Bromoform	20	1.0	20.00	0	97.7	70	130			
Bromomethane	19	3.0	20.00	0	93.6	60	140			
2-Butanone	39	10	40.00	0	98.4	60	140			
Carbon disulfide	36	10	40.00	0	91.0	60	140			
Carbon Tetrachloride	19	1.0	20.00	0	96.1	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
Chloroethane	19	2.0	20.00	0	96.9	60	140			
Chloroform	19	1.0	20.00	0	96.3	70	130			
Chloromethane	17	3.0	20.00	0	83.1	60	140			
2-Chlorotoluene	20	1.0	20.00	0	100	70	130			
4-Chlorotoluene	20	1.0	20.00	0	100	70	130			
cis-1,2-DCE	19	1.0	20.00	0	94.5	70	130			
cis-1,3-Dichloropropene	18	1.0	20.00	0	88.0	70	130			
1,2-Dibromo-3-chloropropane	18	2.0	20.00	0	90.7	70	130			
Dibromochloromethane	19	1.0	20.00	0	94.2	70	130			
Dibromomethane	19	1.0	20.00	0	93.5	70	130			
1,2-Dichlorobenzene	20	1.0	20.00	0	99.9	70	130			
1,3-Dichlorobenzene	21	1.0	20.00	0	103	70	130			
1,4-Dichlorobenzene	21	1.0	20.00	0	103	67.2	141			
Dichlorodifluoromethane	20	1.0	20.00	0	100	60	140			
1,1-Dichloroethane	19	1.0	20.00	0	92.6	52.6	157			
1,1-Dichloroethene	19	1.0	20.00	0	92.7	70	130			
1,2-Dichloropropane	18	1.0	20.00	0	91.5	63.7	138			
1,3-Dichloropropane	19	1.0	20.00	0	94.1	70	130			
2,2-Dichloropropane	18	2.0	20.00	0	90.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID 100ng lcs	SampType: LCS4	TestCode: EPA Method 8260B: VOLATILES							
Client ID: BatchQC	Batch ID: R42948	RunNo: 42948							
Prep Date:	Analysis Date: 5/22/2017	SeqNo: 1351501	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	19	1.0	20.00	0	93.4	70	130			
Hexachlorobutadiene	19	1.0	20.00	0	92.9	70	130			
2-Hexanone	34	10	40.00	0	84.8	60	140			
Isopropylbenzene	20	1.0	20.00	0	102	70	130			
4-Isopropyltoluene	21	1.0	20.00	0	104	70	130			
4-Methyl-2-pentanone	32	10	40.00	0	80.8	60	140			
Methylene Chloride	18	3.0	20.00	0	92.1	70	130			
n-Butylbenzene	20	3.0	20.00	0	98.2	70	130			
n-Propylbenzene	20	1.0	20.00	0	100	70	130			
sec-Butylbenzene	20	1.0	20.00	0	100	70	130			
Styrene	19	1.0	20.00	0	92.9	70	130			
tert-Butylbenzene	20	1.0	20.00	0	102	70	130			
1,1,1,2-Tetrachloroethane	20	1.0	20.00	0	99.7	70	130			
1,1,2,2-Tetrachloroethane	20	2.0	20.00	0	97.5	65.9	133			
Tetrachloroethene (PCE)	21	1.0	20.00	0	106	70	130			
trans-1,2-DCE	19	1.0	20.00	0	93.5	70	130			
trans-1,3-Dichloropropene	18	1.0	20.00	0	91.2	70	130			
1,2,3-Trichlorobenzene	18	1.0	20.00	0	91.7	70	130			
1,2,4-Trichlorobenzene	19	1.0	20.00	0	94.6	70	130			
1,1,1-Trichloroethane	19	1.0	20.00	0	94.5	70	130			
1,1,2-Trichloroethane	19	1.0	20.00	0	95.1	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.6	70	130			
Trichlorofluoromethane	19	1.0	20.00	0	96.0	70	130			
1,2,3-Trichloropropane	19	2.0	20.00	0	95.1	69.7	129			
Vinyl chloride	18	1.0	20.00	0	90.5	70	130			
Xylenes, Total	61	1.5	60.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.2	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

Sample ID RB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R42948	RunNo: 42948							
Prep Date:	Analysis Date: 5/22/2017	SeqNo: 1352107	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R42948**	RunNo: **42948**
Prep Date:	Analysis Date: **5/22/2017**	SeqNo: **1352107** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705955**

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R42948**	RunNo: **42948**
Prep Date:	Analysis Date: **5/22/2017**	SeqNo: **1352107** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates
Project: Manzanares SJ

Sample ID	lcs-31811	SampType:	LCS	TestCode:	EPA Method 8270C: PAHs					
Client ID:	LCSW	Batch ID:	31811	RunNo:	43049					
Prep Date:	5/18/2017	Analysis Date:	5/24/2017	SeqNo:	1354630	Units:	µg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	15	0.50	20.00	0	75.9	37.4	120			
1-Methylnaphthalene	15	0.50	20.00	0	74.8	39.3	121			
2-Methylnaphthalene	15	0.50	20.00	0	72.7	37.8	122			
Acenaphthylene	17	0.50	20.00	0	82.8	37	124			
Acenaphthene	17	0.50	20.00	0	83.7	35.6	123			
Fluorene	17	0.50	20.00	0	84.0	35.2	122			
Phenanthrene	18	0.50	20.00	0	89.1	38.8	122			
Anthracene	18	0.50	20.00	0	90.1	37.5	125			
Fluoranthene	18	0.50	20.00	0	89.2	37.4	131			
Pyrene	17	0.50	20.00	0	86.8	27.5	140			
Benz(a)anthracene	18	0.50	20.00	0	87.5	25.4	141			
Chrysene	17	0.50	20.00	0	83.7	33.6	155			
Benzo(b)fluoranthene	17	0.50	20.00	0	83.8	39	153			
Benzo(k)fluoranthene	17	0.50	20.00	0	86.2	38	154			
Benzo(a)pyrene	17	0.50	20.00	0	84.9	38.6	153			
Dibenz(a,h)anthracene	18	0.50	20.00	0	87.6	39.7	155			
Benzo(g,h,i)perylene	17	0.50	20.00	0	86.6	39.6	154			
Indeno(1,2,3-cd)pyrene	17	0.50	20.00	0	84.5	19.1	153			
Surr: N-hexadecane	81		87.60		92.1	15	176			
Surr: Benzo(e)pyrene	21		20.00		106	15	198			

Sample ID	lcsd-31811	SampType:	LCSD	TestCode:	EPA Method 8270C: PAHs					
Client ID:	LCSS02	Batch ID:	31811	RunNo:	43049					
Prep Date:	5/18/2017	Analysis Date:	5/24/2017	SeqNo:	1354632	Units:	µg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	15	0.50	20.00	0	72.6	37.4	120	4.44	20	
1-Methylnaphthalene	15	0.50	20.00	0	73.4	39.3	121	1.89	26.8	
2-Methylnaphthalene	13	0.50	20.00	0	65.5	37.8	122	10.4	23.8	
Acenaphthylene	16	0.50	20.00	0	80.7	37	124	2.57	28.6	
Acenaphthene	16	0.50	20.00	0	81.4	35.6	123	2.79	27	
Fluorene	16	0.50	20.00	0	80.8	35.2	122	3.88	25.7	
Phenanthrene	16	0.50	20.00	0	79.7	38.8	122	11.1	20	
Anthracene	16	0.50	20.00	0	80.5	37.5	125	11.3	21.2	
Fluoranthene	16	0.50	20.00	0	77.6	37.4	131	13.9	21.8	
Pyrene	16	0.50	20.00	0	80.8	27.5	140	7.16	31.1	
Benz(a)anthracene	16	0.50	20.00	0	78.5	25.4	141	10.8	26.6	
Chrysene	16	0.50	20.00	0	77.9	33.6	155	7.18	21.2	
Benzo(b)fluoranthene	16	0.50	20.00	0	78.1	39	153	7.04	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705955**

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID **lcsd-31811**	SampType: **LCSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS02**	Batch ID: **31811**	RunNo: **43049**
Prep Date: **5/18/2017**	Analysis Date: **5/24/2017**	SeqNo: **1354632** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	17	0.50	20.00	0	85.3	38	154	1.05	21	
Benzo(a)pyrene	16	0.50	20.00	0	81.6	38.6	153	3.96	24.8	
Dibenz(a,h)anthracene	16	0.50	20.00	0	81.2	39.7	155	7.58	26	
Benzo(g,h,i)perylene	16	0.50	20.00	0	81.2	39.6	154	6.44	20	
Indeno(1,2,3-cd)pyrene	16	0.50	20.00	0	78.7	19.1	153	7.11	20	
Surr: N-hexadecane	74		87.60		84.1	15	176	0	0	
Surr: Benzo(e)pyrene	18		20.00		92.1	15	198	0	0	

Sample ID **mb-31811**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBW**	Batch ID: **31811**	RunNo: **43049**
Prep Date: **5/18/2017**	Analysis Date: **5/24/2017**	SeqNo: **1354634** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	68		87.60		77.3	15	176			
Surr: Benzo(e)pyrene	18		20.00		90.1	15	198			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID	MB-32032	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury					
Client ID:	PBW	Batch ID:	32032	RunNo:	43161					
Prep Date:	5/31/2017	Analysis Date:	5/31/2017	SeqNo:	1358624	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-32032	SampType:	LCS	TestCode:	EPA Method 7470: Mercury					
Client ID:	LCSW	Batch ID:	32032	RunNo:	43161					
Prep Date:	5/31/2017	Analysis Date:	5/31/2017	SeqNo:	1358625	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	98.9	80	120			

Sample ID	1705955-001CMS	SampType:	MS	TestCode:	EPA Method 7470: Mercury					
Client ID:	Manzanares BGT	Batch ID:	32032	RunNo:	43161					
Prep Date:	5/31/2017	Analysis Date:	5/31/2017	SeqNo:	1358632	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0.0002014	95.7	75	125			

Sample ID	1705955-001CMSD	SampType:	MSD	TestCode:	EPA Method 7470: Mercury					
Client ID:	Manzanares BGT	Batch ID:	32032	RunNo:	43161					
Prep Date:	5/31/2017	Analysis Date:	5/31/2017	SeqNo:	1358633	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0.0002014	94.4	75	125	1.27	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705955**

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID **MB-31927**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **31927**	RunNo: **43047**
Prep Date: **5/24/2017**	Analysis Date: **5/25/2017**	SeqNo: **1354689** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID **LCS-31927**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **31927**	RunNo: **43047**
Prep Date: **5/24/2017**	Analysis Date: **5/25/2017**	SeqNo: **1354690** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.020	0.5000	0	99.6	80	120			
Barium	0.49	0.020	0.5000	0	98.7	80	120			
Cadmium	0.49	0.0020	0.5000	0	98.0	80	120			
Chromium	0.49	0.0060	0.5000	0	97.5	80	120			
Lead	0.49	0.0050	0.5000	0	97.6	80	120			
Selenium	0.50	0.050	0.5000	0	100	80	120			
Silver	0.10	0.0050	0.1000	0	100	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM | Work Order Number: 1705955 | RcptNo: 1

Received By: Ashley Gallegos 5/18/2017 6:45:00 AM

Completed By: Ashley Gallegos 5/18/2017 8:41:40 AM

Reviewed By: aj 5/18/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 1
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	(<2 or >12 unless noted) Adjusted? NC
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: Fe

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Yes			

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W Broadway Farmington, NM 87401

Phone #: 505-325-7535

email or Fax#: ashley maxwell

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Manzanares SJ

Project #: Manzanares SJ BGT

Project Manager: Ashley Maxwell
Tom Long

Sampler: Randy Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.0-0.5(0F)=3.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 5 1705954	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270SIMS)	RCRA 8 Metals TCLP	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
5/17/17	12:52	H_2O	Manzanares BGT	Various		-001						X	X			X						

Date:	Time:	Relinquished by	Received by:	Date	Time	Remarks:
5/17/17	1625			5/17/17	1625	8260 Full List Report TCLP compound Limits
5/17/17	1900			05/18/17	0645	Invoice Tom Long

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Rattlesnake Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 16, T32N, R9W; 36.987603, -107.77771

4. Source and Description of Waste:
Source: Water from the Non Exempt Water Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 160 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 625 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long), representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long), representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determine

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Gary Hanna TITLE: Superintendent DATE: 12/17
SIGNATURE: Gary Hanna TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 13, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Rattlesnake Canyon OrderNo.: 1705E07

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/26/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1705E07**
Date Reported: **6/13/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Rattlesnake Canyon
Lab ID: 1705E07-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt Waste
Collection Date: 5/25/2017 10:00:00 AM
Received Date: 5/26/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **MED**	
Mercury	0.00026	0.00020		mg/L	1	6/7/2017 4:18:17 PM	32154
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **MED**	
Arsenic	ND	5.0		mg/L	1	6/7/2017 11:47:55 AM	32128
Barium	ND	100		mg/L	1	6/7/2017 11:47:55 AM	32128
Cadmium	ND	1.0		mg/L	1	6/7/2017 11:47:55 AM	32128
Chromium	ND	5.0		mg/L	1	6/7/2017 11:47:55 AM	32128
Lead	ND	5.0		mg/L	1	6/7/2017 11:47:55 AM	32128
Selenium	ND	1.0		mg/L	1	6/7/2017 11:47:55 AM	32128
Silver	ND	5.0		mg/L	1	6/7/2017 11:47:55 AM	32128
EPA METHOD 8270C: PAHS						Analyst: **DAM**	
Naphthalene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
1-Methylnaphthalene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
2-Methylnaphthalene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Acenaphthylene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Acenaphthene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Fluorene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Phenanthrene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Anthracene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Fluoranthene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Pyrene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Benz(a)anthracene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Chrysene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Benzo(b)fluoranthene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Benzo(k)fluoranthene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Benzo(a)pyrene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Dibenz(a,h)anthracene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Benzo(g,h,i)perylene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Indeno(1,2,3-cd)pyrene	ND	2.5	D	µg/L	1	6/8/2017 3:32:35 PM	32059
Surr: N-hexadecane	46.1	34.2-111	D	%Rec	1	6/8/2017 3:32:35 PM	32059
Surr: Benzo(e)pyrene	43.9	39.3-124	D	%Rec	1	6/8/2017 3:32:35 PM	32059
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.50		mg/L	200	5/26/2017 7:21:35 PM	W43112
Toluene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Ethylbenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1705E07**
Date Reported: **6/13/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Rattlesnake Canyon
Lab ID: 1705E07-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt Waste
Collection Date: 5/25/2017 10:00:00 AM
Received Date: 5/26/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Naphthalene	ND	0.40		mg/L	200	5/26/2017 7:21:35 PM	W43112
1-Methylnaphthalene	ND	0.80		mg/L	200	5/26/2017 7:21:35 PM	W43112
2-Methylnaphthalene	ND	0.80		mg/L	200	5/26/2017 7:21:35 PM	W43112
Acetone	ND	2.0		mg/L	200	5/26/2017 7:21:35 PM	W43112
Bromobenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Bromodichloromethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Bromoform	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Bromomethane	ND	0.60		mg/L	200	5/26/2017 7:21:35 PM	W43112
2-Butanone	ND	2.0		mg/L	200	5/26/2017 7:21:35 PM	W43112
Carbon disulfide	ND	2.0		mg/L	200	5/26/2017 7:21:35 PM	W43112
Carbon Tetrachloride	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Chlorobenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Chloroethane	ND	0.40		mg/L	200	5/26/2017 7:21:35 PM	W43112
Chloroform	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Chloromethane	ND	0.60		mg/L	200	5/26/2017 7:21:35 PM	W43112
2-Chlorotoluene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
4-Chlorotoluene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
cis-1,2-DCE	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	5/26/2017 7:21:35 PM	W43112
Dibromochloromethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Dibromomethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2-Dichlorobenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,3-Dichlorobenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,4-Dichlorobenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Dichlorodifluoromethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1-Dichloroethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1-Dichloroethene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2-Dichloropropane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,3-Dichloropropane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
2,2-Dichloropropane	ND	0.40		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1-Dichloropropene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Hexachlorobutadiene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
2-Hexanone	ND	2.0		mg/L	200	5/26/2017 7:21:35 PM	W43112
Isopropylbenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
4-Isopropyltoluene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
4-Methyl-2-pentanone	ND	2.0		mg/L	200	5/26/2017 7:21:35 PM	W43112
Methylene Chloride	ND	0.60		mg/L	200	5/26/2017 7:21:35 PM	W43112

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1705E07**
Date Reported: **6/13/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Rattlesnake Canyon
Lab ID: 1705E07-001 **Matrix:** AQUEOUS

Client Sample ID: Non Exempt Waste
Collection Date: 5/25/2017 10:00:00 AM
Received Date: 5/26/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
n-Butylbenzene	ND	0.60		mg/L	200	5/26/2017 7:21:35 PM	W43112
n-Propylbenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
sec-Butylbenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Styrene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
tert-Butylbenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	5/26/2017 7:21:35 PM	W43112
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
trans-1,2-DCE	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,1-Trichloroethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,2-Trichloroethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Trichloroethene (TCE)	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Trichlorofluoromethane	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2,3-Trichloropropane	ND	0.40		mg/L	200	5/26/2017 7:21:35 PM	W43112
Vinyl chloride	ND	0.20		mg/L	200	5/26/2017 7:21:35 PM	W43112
Xylenes, Total	ND	0.30		mg/L	200	5/26/2017 7:21:35 PM	W43112
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	200	5/26/2017 7:21:35 PM	W43112
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	200	5/26/2017 7:21:35 PM	W43112
Surr: Dibromofluoromethane	96.0	70-130		%Rec	200	5/26/2017 7:21:35 PM	W43112
Surr: Toluene-d8	100	70-130		%Rec	200	5/26/2017 7:21:35 PM	W43112

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705E07

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: W43112	RunNo: 43112
Prep Date:	Analysis Date: 5/26/2017	SeqNo: 1356803 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705E07**

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W43112**	RunNo: **43112**
Prep Date:	Analysis Date: **5/26/2017**	SeqNo: **1356803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.5	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W43112**	RunNo: **43112**
Prep Date:	Analysis Date: **5/26/2017**	SeqNo: **1356804** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705E07**

13-Jun-17

Client: Souder, Miller and Associates
Project: Rattlesnake Canyon

Sample ID **100ng lcs**	SampType: **LCS**			TestCode: **EPA Method 8260B: VOLATILES**					
Client ID: **LCSW**	Batch ID: **W43112**			RunNo: **43112**					
Prep Date:	Analysis Date: **5/26/2017**			SeqNo: **1356804**	Units: **µg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	115	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	96.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.5	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.8	70	130			
Surr: Toluene-d8	9.8		10.00		98.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705E07**

13-Jun-17

Client: Souder, Miller and Associates
Project: Rattlesnake Canyon

Sample ID **lcs-32059**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**							
Client ID: **LCSW**	Batch ID: **32059**	RunNo: **43417**							
Prep Date: **6/1/2017**	Analysis Date: **6/8/2017**	SeqNo: **1366948**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	12	0.50	20.00	0	60.0	37.4	120			
1-Methylnaphthalene	12	0.50	20.00	0	60.4	39.3	121			
2-Methylnaphthalene	12	0.50	20.00	0	60.9	37.8	122			
Acenaphthylene	14	0.50	20.00	0	68.2	37	124			
Acenaphthene	13	0.50	20.00	0	64.9	35.6	123			
Fluorene	14	0.50	20.00	0	69.0	35.2	122			
Phenanthrene	14	0.50	20.00	0	71.1	38.8	122			
Anthracene	14	0.50	20.00	0	71.5	37.5	125			
Fluoranthene	14	0.50	20.00	0	72.3	37.4	131			
Pyrene	15	0.50	20.00	0	72.9	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	74.9	25.4	141			
Chrysene	13	0.50	20.00	0	66.8	33.6	155			
Benzo(b)fluoranthene	14	0.50	20.00	0	70.6	39	153			
Benzo(k)fluoranthene	14	0.50	20.00	0	68.3	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	67.9	38.6	153			
Dibenz(a,h)anthracene	14	0.50	20.00	0	72.3	39.7	155			
Benzo(g,h,i)perylene	14	0.50	20.00	0	68.9	39.6	154			
Indeno(1,2,3-cd)pyrene	14	0.50	20.00	0	68.1	19.1	153			
Surr: N-hexadecane	47		87.60		54.0	34.2	111			
Surr: Benzo(e)pyrene	14		20.00		70.5	39.3	124			

Sample ID **lcsd-32059**	SampType: **LCSD**	TestCode: **EPA Method 8270C: PAHs**							
Client ID: **LCSS02**	Batch ID: **32059**	RunNo: **43417**							
Prep Date: **6/1/2017**	Analysis Date: **6/8/2017**	SeqNo: **1366949**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	12	0.50	20.00	0	61.9	37.4	120	3.12	20	
1-Methylnaphthalene	12	0.50	20.00	0	61.2	39.3	121	1.32	26.8	
2-Methylnaphthalene	12	0.50	20.00	0	62.3	37.8	122	2.27	23.8	
Acenaphthylene	13	0.50	20.00	0	67.2	37	124	1.48	28.6	
Acenaphthene	13	0.50	20.00	0	64.2	35.6	123	1.08	27	
Fluorene	13	0.50	20.00	0	66.0	35.2	122	4.44	25.7	
Phenanthrene	14	0.50	20.00	0	70.4	38.8	122	0.989	20	
Anthracene	14	0.50	20.00	0	69.7	37.5	125	2.55	21.2	
Fluoranthene	14	0.50	20.00	0	70.8	37.4	131	2.10	21.8	
Pyrene	15	0.50	20.00	0	75.4	27.5	140	3.37	31.1	
Benz(a)anthracene	15	0.50	20.00	0	74.5	25.4	141	0.535	26.6	
Chrysene	14	0.50	20.00	0	70.4	33.6	155	5.25	21.2	
Benzo(b)fluoranthene	15	0.50	20.00	0	73.5	39	153	4.02	20	

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705E07**

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID **lcsd-32059**	SampType: **LCSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS02**	Batch ID: **32059**	RunNo: **43417**
Prep Date: **6/1/2017**	Analysis Date: **6/8/2017**	SeqNo: **1366949** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	14	0.50	20.00	0	68.3	38	154	0	21	
Benzo(a)pyrene	14	0.50	20.00	0	68.9	38.6	153	1.46	24.8	
Dibenz(a,h)anthracene	14	0.50	20.00	0	71.9	39.7	155	0.555	26	
Benzo(g,h,i)perylene	14	0.50	20.00	0	70.8	39.6	154	2.72	20	
Indeno(1,2,3-cd)pyrene	14	0.50	20.00	0	69.0	19.1	153	1.31	20	
Surr: N-hexadecane	46		87.60		52.3	34.2	111	0	0	
Surr: Benzo(e)pyrene	14		20.00		70.3	39.3	124	0	0	

Sample ID **mb-32059**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBW**	Batch ID: **32059**	RunNo: **43417**
Prep Date: **6/1/2017**	Analysis Date: **6/8/2017**	SeqNo: **1366950** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	45		87.60		51.6	34.2	111			
Surr: Benzo(e)pyrene	15		20.00		73.4	39.3	124			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705E07**

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID **MB-32154**	SampType: **MBLK**	TestCode: **EPA Method 7470: Mercury**							
Client ID: **PBW**	Batch ID: **32154**	RunNo: **43332**							
Prep Date: **6/7/2017**	Analysis Date: **6/7/2017**	SeqNo: **1364044**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID **LCS-32154**	SampType: **LCS**	TestCode: **EPA Method 7470: Mercury**							
Client ID: **LCSW**	Batch ID: **32154**	RunNo: **43332**							
Prep Date: **6/7/2017**	Analysis Date: **6/7/2017**	SeqNo: **1364045**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.4	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1705E07**

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID	**MB-32128**	SampType: **MBLK**		TestCode: **EPA 6010B: Total Recoverable Metals**					
Client ID:	**PBW**	Batch ID: **32128**		RunNo: **43315**					
Prep Date:	**6/6/2017**	Analysis Date: **6/7/2017**		SeqNo: **1363670**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	**LCS-32128**	SampType: **LCS**		TestCode: **EPA 6010B: Total Recoverable Metals**					
Client ID:	**LCSW**	Batch ID: **32128**		RunNo: **43315**					
Prep Date:	**6/6/2017**	Analysis Date: **6/7/2017**		SeqNo: **1363671**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.020	0.5000	0	99.2	80	120			
Barium	0.49	0.020	0.5000	0	97.6	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.2	80	120			
Chromium	0.49	0.0060	0.5000	0	97.2	80	120			
Lead	0.48	0.0050	0.5000	0	96.5	80	120			
Selenium	0.50	0.050	0.5000	0	99.0	80	120			
Silver	0.10	0.0050	0.1000	0	100	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1705E07 RcptNo: 1

Received By: Andy Freeman 5/26/2017 7:50:00 AM

Completed By: Ashley Gallegos 5/26/2017 1:22:11 PM

Reviewed By: SRC 05/26/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? NO
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Souder Miller & Assoc

Mailing Address: 401 W. Broadway Farmington NM 87401

Phone #: 505 325-7535

email or Fax#: Ashley.Maxwell@

QA/QC Package: Souder miller, comm

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: Rattlesnake Canyon

Project #:

Project Manager: Ashley Maxwell, Tom Long

Sampler: Randy Watson

On Ice: ~~☑ Yes~~ ☐ No

Sample Temperature: 1.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1705E07	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals TCLP	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
5-25-17	10:00	H2O	Non Exempt Waste	Various	Various	001						X	X			X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
5-25-17	1349	Randy Watson	Christine Walters	5/25/17	1349
5/25/17	1901			05/26/17	0750

Remarks: 8260 Full list, Report TCLP Compounds at TCLP limits

Invoice Tom Long / Enterprise

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 284141

COMMENTS

Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
	Action Number: 284141
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created By	Comment	Comment Date
cchavez	Quarterly Waste Analyses Information 2017	11/8/2023

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CONDITIONS

Action 284141

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Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
	Action Number: 284141
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
cchavez	Condition of Approval: 1. Follow Discharge Permit Guidelines, Content, and Deadline Dates for submittal of future reports.	11/8/2023