

Form C-141

State of New Mexico

Page 6

Oil Conservation Division

Incident ID	nAPP2109535682
District RP	
Facility ID	
Application ID	

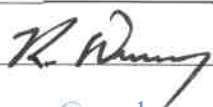
## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Robert Dunaway Title: Senior Environmental Engineer  
 Signature:  Date: 07/23/2021 07/14/21  
 email: rhunaway@eprod.com Telephone: 575-628-6802

### OCD Only

Received by: Chad Hensley Date: 08/19/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 08/19/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220  
(575) 689-8801

June 22, 2021

#5E29921-BG3

NMOCD District 2  
811 S. First St.  
Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Poker Lake Line Releases (NAPP2107728692, NAPP2109535682, NAPP2111739546, NAPP2111740970), Eddy County, New Mexico

## 1.0 Executive Summary

On behalf of Enterprise Field Services LLC (Enterprise), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of four (4) releases of natural gas and liquids related to oil and gas production activities at the Poker Lake pipeline. The pipeline is in Unit O, Section 19, Township 24S, Range 30E, Eddy County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

This report demonstrates that the site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC. In addition to meeting the Closure Criteria, the top four (4) feet of impacted areas meet the reclamation requirement of 19.15.29.13(D)(1). The information provided in this report is intended to fulfill final NMOCD closure requirements.

**SMA recommends no further actions and requests that the releases listed in Table 1 associated with the Poker Lake Pipeline be closed.**

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Poker Lake Pipeline	Company	Enterprise Field Services
API Number	N/A	Location	32.196196 -103.916792 32.196494 -103.916670
Tracking Number	NAPP2107728692, NAPP2109535682, NAPP2111739546, NAPP2111740970		
Estimated Date of Release	NAPP2107728692-March 4, 2021 NAPP2109535682-March 23, 2021 NAPP2111739546-April 12, 2021 NAPP2111740970-April 14, 2021	Date Reported to NMOCD	NAPP2107728692- Marth 18, 2021 NAPP2109535682- April 5, 2021 NAPP2111739546- April 27, 2021 NAPP2111740970- April 27, 2021
Land Owner	Federal	Reported To	NMOCD District II
Source of Release	Pinholes in pipeline		
Released Volume	NAPP2107728692-10 gallons pipeline liquid/ 270.9 Mcf NAPP2109535682-0.5 bbls pipeline liquid/ 243 Mcf NAPP2111739546-0.5 bbls pipeline liquid/ 278 Mcf NAPP2111740970-0.5 bbls pipeline liquid/ 278 Mcf	Released Material	NAPP2107728692-10 gallons pipeline liquid/ 270.9 Mcf NAPP2109535682-0.5 bbls pipeline liquid/ 243 Mcf NAPP2111739546-0.5 bbls pipeline liquid/ 278 Mcf NAPP2111740970-0.5 bbls pipeline liquid/ 278 Mcf
Recovered Volume	NAPP2107728692- 0 NAPP2109535682- 0 NAPP2111739546- 0	Net Release	NAPP2107728692-10 gallons pipeline liquid/ 270.9 Mcf

## Poker Lake Closure Report June 22, 2021

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	NAPP2111740970- 0		NAPP2109535682-0.5 bbls pipeline liquid/ 243 Mcf NAPP2111739546-0.5 bbls pipeline liquid/ 278 Mcf NAPP2111740970-0.5 bbls pipeline liquid/ 278 Mcf
NMOCD Closure Criteria	>100 feet to groundwater		
SMA Response Dates	April 9, 2021, April 30, 2021, May 7, 2021		

## 2.0 Background

Between March 4, 2021 and April 14, 2021, four (4) release were discovered on the Poker Lake pipeline. The cause of the pinholes in the pipeline has yet to be determined. Initial response activities were conducted by Enterprise, and included source elimination and site security, containment, and site stabilization activities. Figure 1 illustrates the vicinity and pipeline location; Figure 2 illustrates the release location. The C-141 forms are included in Appendix A.

## 3.0 Site Information and Closure Criteria

The Poker Lake pipeline is located approximately 9 miles southeast of Malaga, New Mexico on Federal (BLM) land at an elevation of approximately 3,179 feet above mean sea level (amsl).

### Depth to Groundwater

Based upon water well data (Appendix B), depth to groundwater in the area is estimated to be 222 feet below grade surface (bgs).

### Wellhead Protection Area

There are two (2) known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database and USGS National Water Information System (Appendix B).

### Distance to Nearest Significant Watercourse

The nearest significant watercourse is Pecos River, located approximately three (3) miles to the southwest.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs in addition to the requirements of reclamation for the upper four feet of impacted soil.

## 4.0 Release Characterization and Remediation Activities

On April 9, 2021, SMA personnel performed site delineation activities at the Poker Lake pipeline for incidents NAPP2107728692 and NAPP2109535682. SMA collected soil samples around the release site and throughout the visibly stained area. The areas of visual impact was located entirely within the Enterprise right-of-way (ROW).

Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

**Poker Lake Closure Report**  
**June 22, 2021**

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A total of eight (8) sample locations were investigated using heavy equipment to depths up to fifteen (15) feet bgs. A total of twelve (12) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Sample locations are shown on Figure 3A.

As summarized in Table 3A, results indicated that samples S2 and SW2 exceeded NMOCD Closure Criteria and required further excavation.

Subsequent releases (NAPP2111739546, NAPP2111740970) occurred on April 12 and April 14, 2021 on the Poker Lake pipeline.

On April 30, 2021 and May 7, 2021 SMA returned to the site to guide excavation activities by collecting soil samples for field screening. Two separate, but closely located excavations occurred to address the four releases. Samples were screened for chloride using an electrical conductivity (EC) meter and/or for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met.

Excavation dimensions and closure sample locations are depicted in Figure 3B.

Confirmation samples were comprised of five-point composites of the base (CS1-CS5) and walls (CSW1-CSW8).

A total of seventeen (17) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Conformation laboratory results are summarized in Table 3B. Laboratory reports are included in Appendix D.

## **5.0 Site Recommendations**

As demonstrated in Table 3, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC. In addition to meeting the Closure Criteria, the top four (4) feet of impacted areas meet the reclamation requirement of 19.15.29.13(D)(1).

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at Lea Land LLC, Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Numbers NAPP2107728692, NAPP2109535682, NAPP2111739546, NAPP2111740970.

## **6.0 Scope and Limitations**

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.



Poker Lake Closure Report  
June 22, 2021

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If there are any questions regarding this report, please contact either Ashley Maxwell at 505-320-8975 or Shawna Chubbuck at 505-325-7535.

Submitted by:  
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Ashley Maxwell  
Project Scientist



Shawna Chubbuck  
Senior Scientist

**REFERENCES:**

New Mexico Office of the State Engineer (NMOSE) online water well database  
[https://gis.ose.state.nm.us/gisapps/ose\\_pod\\_locations/](https://gis.ose.state.nm.us/gisapps/ose_pod_locations/); accessed 4/8/2021  
USGS National Water Information System: Web Interface  
<https://nwis.waterdata.usgs.gov/nwis/gwlevels?>; accessed on April 8, 2021.

**ATTACHMENTS:**

**Figures:**

Figure 1: Vicinity and Well Head Protection Map  
Figure 2: Surface Water Radius Map

Poker Lake Closure Report  
June 22, 2021

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Figure 3: Site and Sample Location Map

**Tables:**

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

**Appendices:**

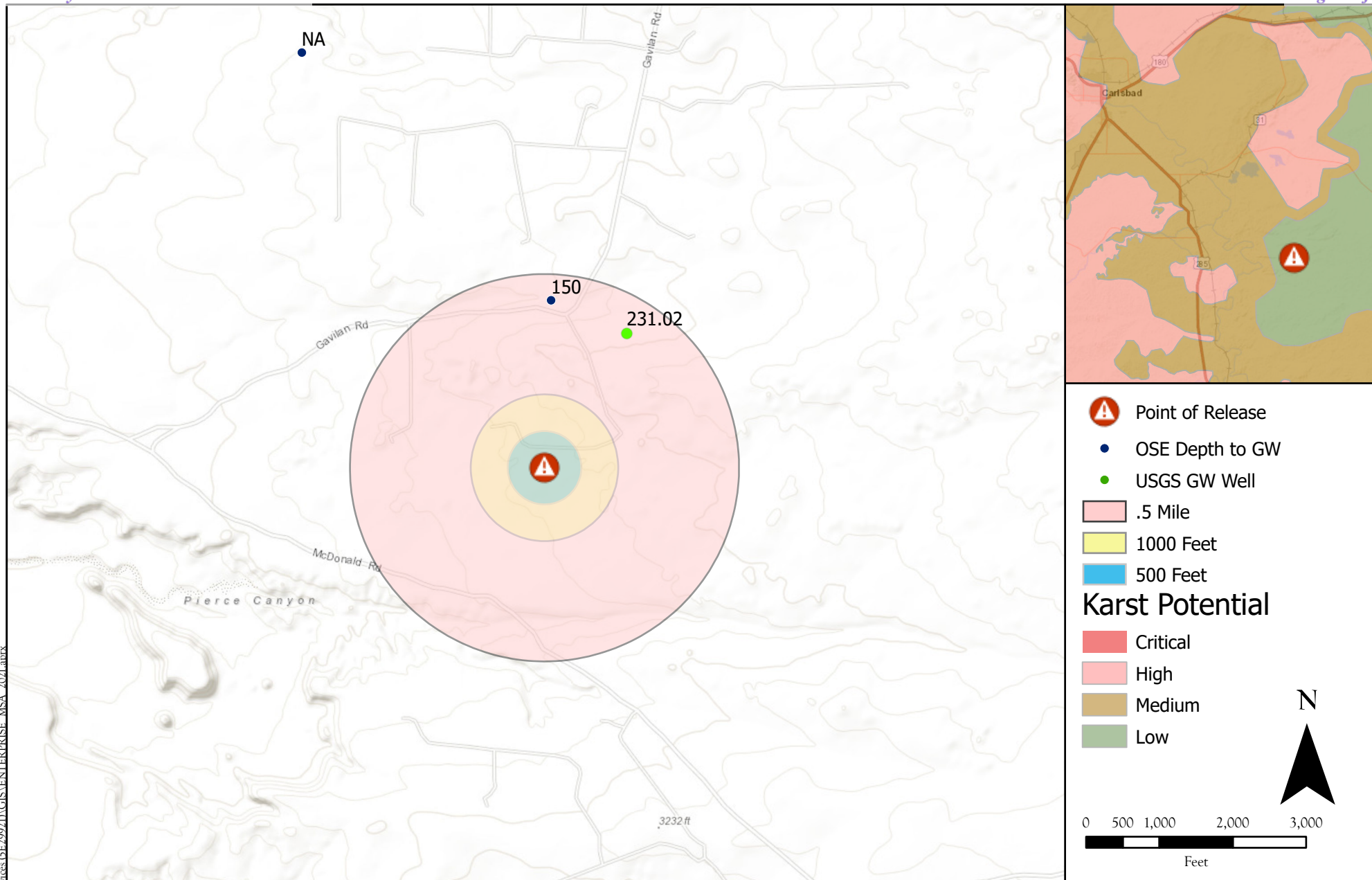
Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Field Notes and Photo Log

Appendix D: Laboratory Analytical Reports

# FIGURES



Site Map  
Poker Lake Discharge Leak Site- Enterprise  
UL O S19 24S 30E, Eddy County, New Mexico

Figure 1

Revisions

By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

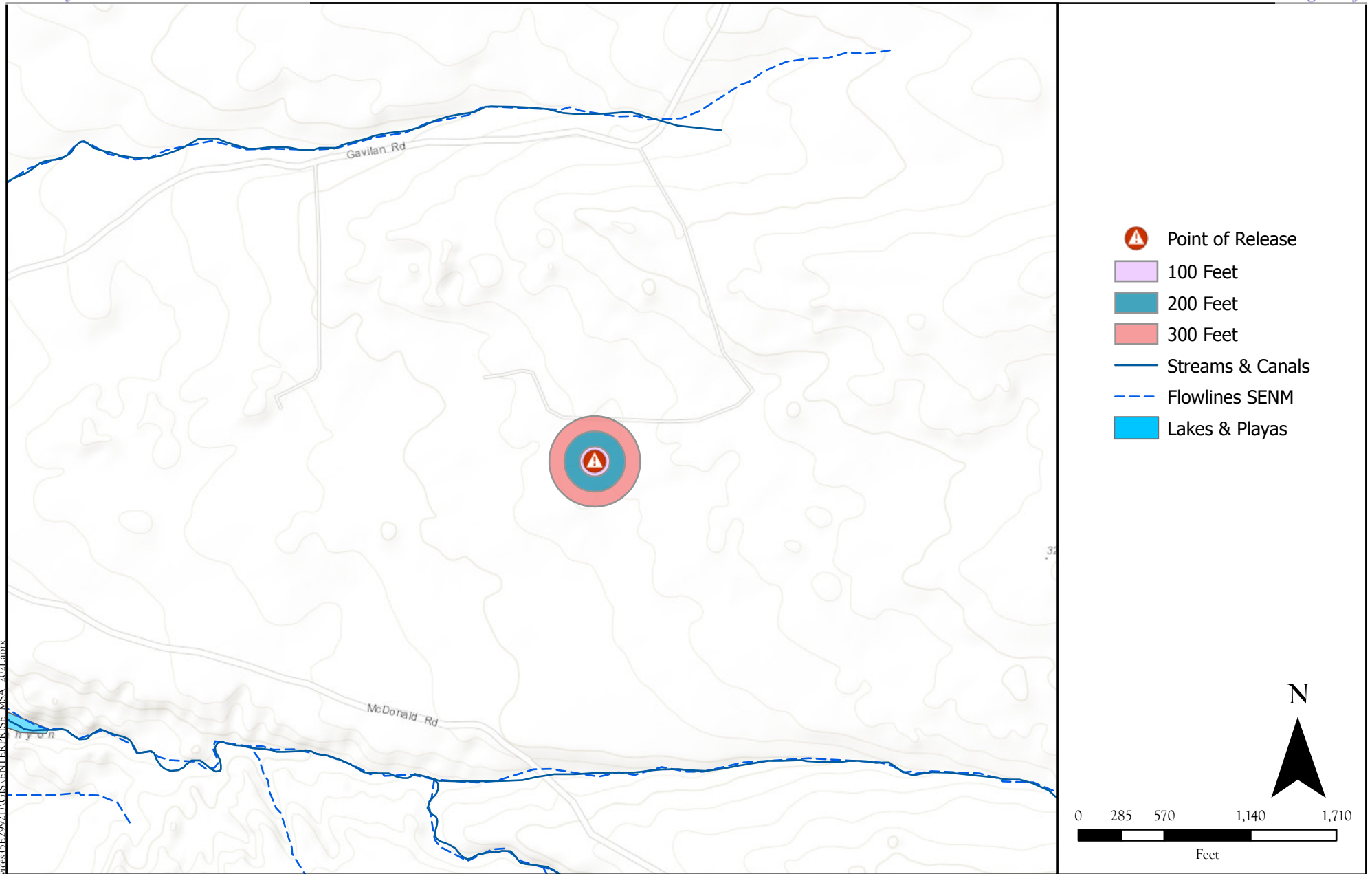
Drawn  
Date  
Checked  
Approved

Jake Madison  
4/8/2021  
\_\_\_\_\_  
\_\_\_\_\_



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Surface Water Protection Map  
 Poker Lake Discharge Leak Site- Enterprise  
 UL O S19 24S 30E, Eddy County, New Mexico

Figure 2

Revisions

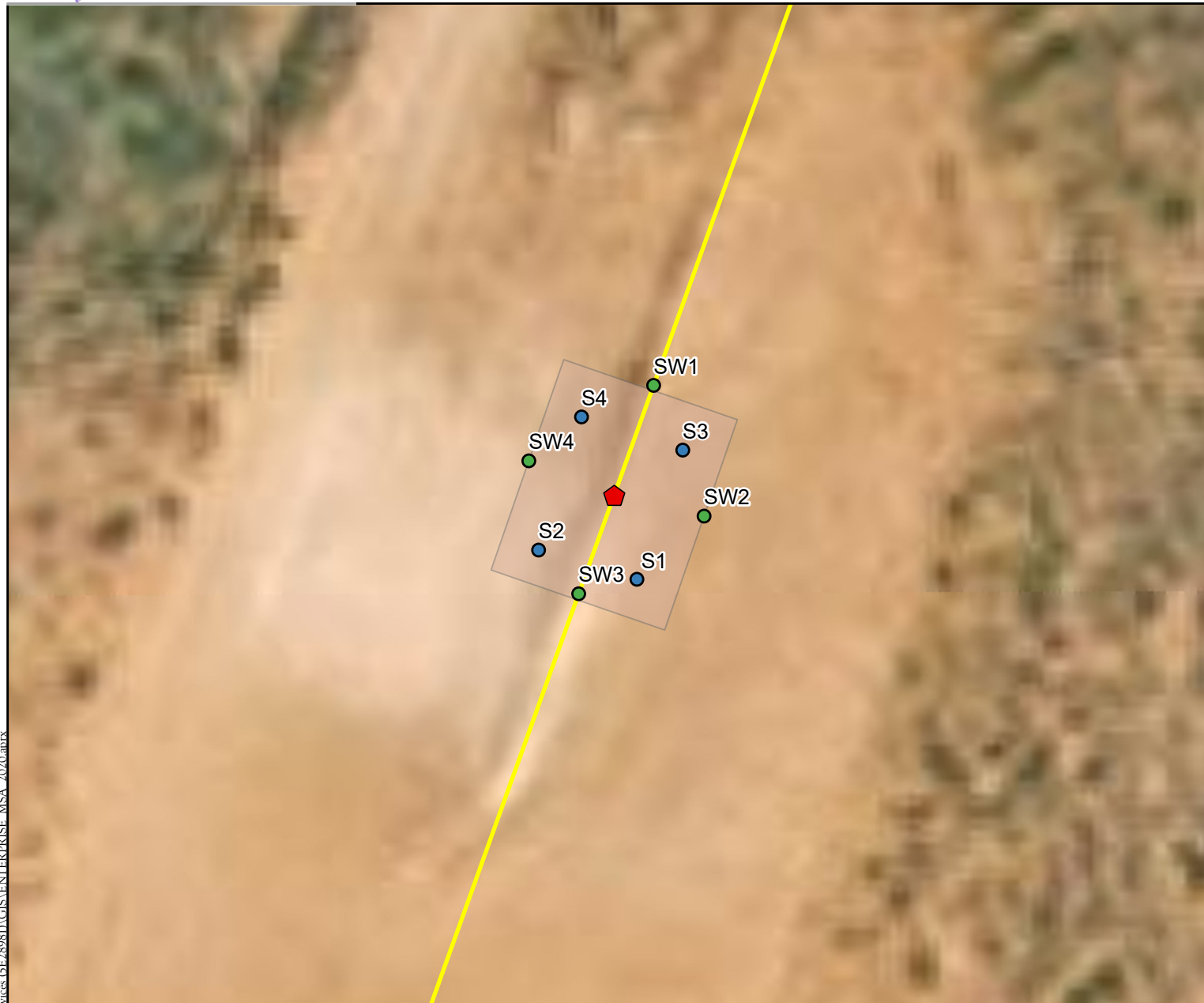
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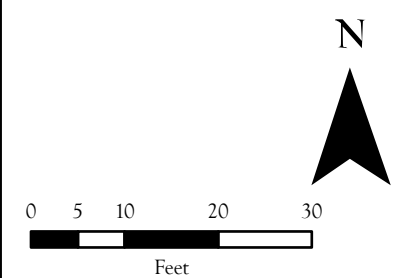
Drawn Jake Madison  
 Date 4/8/2021  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_



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-  Point of Release
-  Sidewall Sample
-  Initial Soil Sample
-  15' Excavation
-  Pipeline



Site and Initial Sample Location Map  
 Poker Lake Discharge - Enterprise Field Services LLC  
 32.196370 -103.916706, Eddy County, New Mexico

Figure 3A

Revisions

By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

Drawn  
 Date  
 Checked  
 Approved

PR Smith

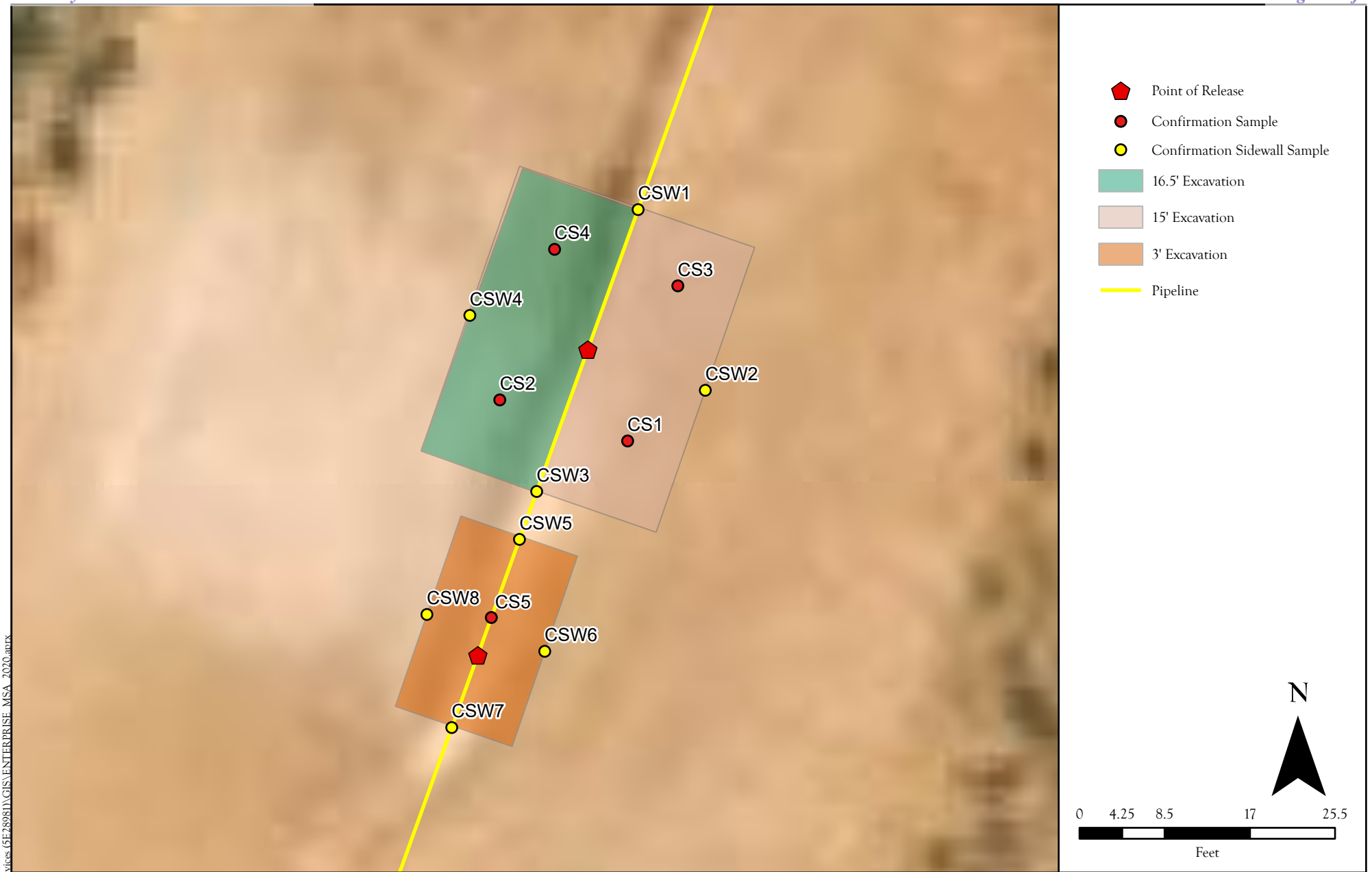
4/22/2021



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Site and Confirmation Sample Location Map  
 Poker Lake Discharge - Enterprise Field Services LLC  
 32.196370 -103.916706, Eddy County, New Mexico

Figure 3B

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 Date Saved: 4/22/2021

Revisions		
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

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Drawn	PR Smith
Date	5/19/2021
Checked	_____
Approved	_____



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# TABLES

Table 2:  
NMOCD Closure CriteriaEnterprise Field Services, LLC  
Poker Lake Discharge

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	>25 years	New Mexico Office of the State Engineer
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	2,283	United States Geological Survey Topo Map
Horizontal Distance to Nearest Significant Watercourse (ft)	15,840	Unnamed Draw

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS	X	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					



Table 3A:  
Initial Sample ResultsEnterprise Field Services, LLC  
Poker Lake Discharge

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Reclamation Requirement (0-4 ft)				50	10			--	100	600
NMOCD Closure Criteria (>4 ft)				50	10	1000			2500	20,000
S1	4/9/2021	15'	In-situ	<1.08	<0.12	<24	65	73	138	<60
S2	4/9/2021	15'	Excavate	56.9	<0.12	1,600	1,300	870	3,770	<60
S3	4/9/2021	15'	In-situ	<0.220	<0.024	<4.9	<10	<50	<64.9	<60
S4	4/9/2021	15'	In-situ	<0.216	<0.024	<4.8	<10	<50	<64.8	<61
SW1	4/9/2021	0-4'	In-situ	<0.211	<0.023	<4.7	31	47	78	<60
	4/9/2021	4-15'	In-situ	<0.216	<0.024	<4.8	<9.5	<47	<61.3	<60
SW2	4/9/2021	0-4'	Excavate	0.764	<0.024	8.7	29	76	113.7	<60
	4/9/2021	4-15'	In-situ	<0.210	<0.023	<4.7	19	<49	19	<60
SW3	4/9/2021	0-4'	In-situ	<0.225	<0.025	<5.0	<9.9	<49	<63.9	<60
	4/9/2021	4-15'	In-situ	<0.219	<0.024	<4.9	<9.9	<49	<63.8	<60
SW4	4/9/2021	0-4'	In-situ	<0.208	<0.023	<4.6	<10	<50	<64.6	<60
	4/9/2021	4-15'	In-situ	<0.221	<0.025	<4.9	<9.4	<47	<61.3	<60

"--" = Not Analyzed

BG: Background sample



Table 3B:  
Confirmation Sample Results

Enterprise Field Services, LLC  
Poker Lake Discharge

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Reclamation Requirement (0-4 ft)				50	10			--	100	600
NMOCD Closure Criteria (>4 ft)				50	10	1000			2500	20,000
CS1	4/30/2021	15	In-Situ	<0.225	<0.025	<5.0	17	<48	17	<60
CS2	5/7/2021	16.5	In-Situ	<0.224	<0.025	<5.0	<9.9	<50	<64.9	<61
CS3	4/30/2021	15	In-Situ	<0.225	<0.025	<5.0	25	<49	25	<60
CS4	4/30/2021	16.5	In-Situ	<0.225	<0.025	<5.0	<9.8	<49	<63.8	<59
CS5	4/30/2021	3	In-Situ	<0.225	<0.025	<5.0	<9.7	<49	<63.7	<61
CSW1	4/30/2021	0-4	In-Situ	<0.225	<0.025	<5.0	14	<49	14	<60
	4/30/2021	4-15	In-Situ	<0.225	<0.025	<5.0	<9.2	<46	<60.2	<60
CSW2	4/30/2021	4-15	In-Situ	<0.225	<0.025	<5.0	<9.7	<48	<62.7	<60
	5/7/2021	0-4	In-Situ	<0.225	<0.025	<5.0	31	<47	31	<60
CSW3	4/30/2021	0-4	In-Situ	<0.225	<0.025	<5.0	<9.2	<46	<60.2	<60
	4/30/2021	4-15	In-Situ	<0.225	<0.025	<5	<9.8	<49	<63.8	<61
CSW4	4/30/2021	0-4	In-Situ	<0.225	<0.025	<5.0	<9.1	<46	<60.1	<61
	4/30/2021	4-16.5	In-Situ	<0.225	<0.025	<5.0	63	1,500	1,563	1,700
CSW5	4/30/2021	0-3	In-Situ	<0.225	<0.025	<5.0	<9.8	<49	<63.8	<60
CSW6	4/30/2021	0-3	In-Situ	<0.225	<0.025	<5.0	<9.6	<48	<62.6	<59
CSW7	4/30/2021	0-3	In-Situ	<0.225	<0.025	<5.0	<8.8	<44	<57.8	<60
CSW8	4/30/2021	0-3	In-Situ	<0.225	<0.025	<5.0	<9.5	<47	<61.5	<59



# APPENDIX A

## FORM C141



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2107728692
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Maria Lerma	Contact Telephone	432-686-5404
Contact email	mmlerma@eprod.com	Incident # (assigned by OCD)	
Contact mailing address	PO Box 4324, Houston, TX 77210		

### Location of Release Source

Latitude 32.196196 Longitude -103.916792  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Poker Lake Discharge Line	Site Type	Gathering Pipeline
Date Release Discovered	March 4, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
O	19	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 10 gallons pipeline liquids	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 270.9	Volume Recovered (Mcf) - 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

Found a leak on 12" pipeline, cause is to be determined.


State of New Mexico  
Oil Conservation Division

Incident ID	NAPP2107728692
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?     
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?     	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Maria M. Lerma</u>	Title: <u>Senior Field Environmental Scientist</u>
Signature: <u></u>	Date: <u>3/18/2021</u>
email: <u>mmlerma@eprod.com</u>	Telephone: <u>432-686-5404</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>4/13/2021</u>

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2109535682
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Robert Dunaway	Contact Telephone	575-628-6802
Contact email	rhunaway@eprod.com	Incident # (assigned by OCD)	nAPP2109535682
Contact mailing address	PO Box 4324, Houston, TX 77210		

### Location of Release Source

Latitude 32.196494 Longitude -103.916670  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Poker Lake Discharge Line	Site Type	Gathering Pipeline
Date Release Discovered	March 23, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
O	19	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 0.5 pipeline liquids	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 243	Volume Recovered (Mcf) - 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

Found a leak on 12" pipeline, cause is to be determined.

Incident ID	NAPP2109535682
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☒ No

If YES, for what reason(s) does the responsible party consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Robert Dunaway

Title: Senior Environmental Engineer

Signature: 

Date: 4/5/21

email: rhunaway@eprod.com

Telephone: 515-628-6802

### OCD Only

Received by: Ramona Marcus

Date: 4/27/2021

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2111739546
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Robert Dunaway	Contact Telephone	575-628-6802
Contact email	rhunaway@eprod.com	Incident # (assigned by OCD)	nAPP2111739546
Contact mailing address	PO Box 4324, Houston, TX 77210		

### Location of Release Source

Latitude 32.196494 Longitude -103.916670  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Poker Lake Discharge Line	Site Type	Gathering Pipeline
Date Release Discovered	April 12, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
O	19	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 0.5 pipeline liquids	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 278	Volume Recovered (Mcf) - 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

Found a leak on 12" pipeline, cause is to be determined.




Page 2

<b>Incident ID</b>	<b>NAPP2111739546</b>
<b>District RP</b>	
<b>Facility ID</b>	
<b>Application ID</b>	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:   	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Robert Dunaway</u>	Title: <u>Senior Environmental Engineer</u>
Signature: <u></u>	Date: <u>4/27/21</u>
email: <u>rhunaway@eprod.com</u>	Telephone: <u>575-628-6802</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>5/10/2021</u>



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
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1000 Rio Brazos Road, Aztec, NM 87410  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2111740970
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Robert Dunaway	Contact Telephone	575-628-6802
Contact email	rhunaway@eprod.com	Incident # (assigned by OCD)	nAPP2111740970
Contact mailing address	PO Box 4324, Houston, TX 77210		

### Location of Release Source

Latitude 32.196494 Longitude -103.916670  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Poker Lake Discharge Line	Site Type	Gathering Pipeline
Date Release Discovered	April 14, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
O	19	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 0.5 pipeline liquids	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 278	Volume Recovered (Mcf) - 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release


Found a leak on 12" pipeline, cause is to be determined.

<b>Incident ID</b>	NAPP2111740970
<b>District RP</b>	
<b>Facility ID</b>	
<b>Application ID</b>	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Robert Dunaway</u>	Title: <u>Senior Environmental Engineer</u>
Signature: <u></u>	Date: <u>4/27/21</u>
email: <u>rhunaway@eprod.com</u>	Telephone: <u>575-628-6802</u>
<b><u>OCD Only</u></b>	Ramona Marcus
Received by: _____	Date: <u>5/10/2021</u>

# APPENDIX B

## WATER WELL DATA



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)


(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD																
POD Number	Code	Sub-basin	County	Q			Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column	
				64	16	4										
<a href="#">C 02109</a>		CUB	ED	1	2	4	19	24S	30E	602130	3563412		696	130	150	-20

Average Depth to Water: **150 feet**

Minimum Depth: **150 feet**

Maximum Depth: **150 feet**

Record Count: 1

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 602106.88

**Northing (Y):** 3562716.52

**Radius:** 1608

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/8/21 11:03 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
United States

GO

Click to hideNews Bulletins

- Explore the **NEW** [USGS National Water Dashboard](#) to access real-time data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

\* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321205103544701

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 321205103544701 24S.30E.19.42113

Eddy County, New Mexico  
Latitude 32°12'05", Longitude 103°54'47" NAD27  
Land-surface elevation 3,188 feet above NAVD88  
The depth of the well is 452 feet below land surface.  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1958-10-24			D 62610		2958.66	NGVD29	1		Z	
1958-10-24			D 62611		2960.30	NAVD88	1		Z	
1958-10-24			D 72019	227.70			1		Z	
1959-03-19			D 62610		2958.61	NGVD29	1		Z	
1959-03-19			D 62611		2960.25	NAVD88	1		Z	
1959-03-19			D 72019	227.75			1		Z	
1975-12-10			D 62610		2954.58	NGVD29	1		Z	
1975-12-10			D 62611		2956.22	NAVD88	1		Z	
1975-12-10			D 72019	231.78			1		Z	
1976-01-16			D 62610		2949.10	NGVD29	1		Z	
1976-01-16			D 62611		2950.74	NAVD88	1		Z	
1976-01-16			D 72019	237.26			1		Z	
1976-12-01			D 62610		2955.63	NGVD29	1		Z	
1976-12-01			D 62611		2957.27	NAVD88	1		Z	
1976-12-01			D 72019	230.73			1		Z	
1977-01-14			D 62610		2955.74	NGVD29	1		Z	
1977-01-14			D 62611		2957.38	NAVD88	1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1977-01-14			D	72019	230.62		1		Z	
1983-02-01			D	62610	2950.43	NGVD29	1		Z	
1983-02-01			D	62611	2952.07	NAVD88	1		Z	
1983-02-01			D	72019	235.93		1		Z	
1987-10-15			D	62610	2953.06	NGVD29	1		S	
1987-10-15			D	62611	2954.70	NAVD88	1		S	
1987-10-15			D	72019	233.30		1		S	
1998-01-27			D	62610	2955.34	NGVD29	1		S	
1998-01-27			D	62611	2956.98	NAVD88	1		S	
1998-01-27			D	72019	231.02		1		S	

## Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-04-08 13:22:06 EDT

0.4 0.37 nadww01



# APPENDIX C FIELD NOTES & PHOTO LOG

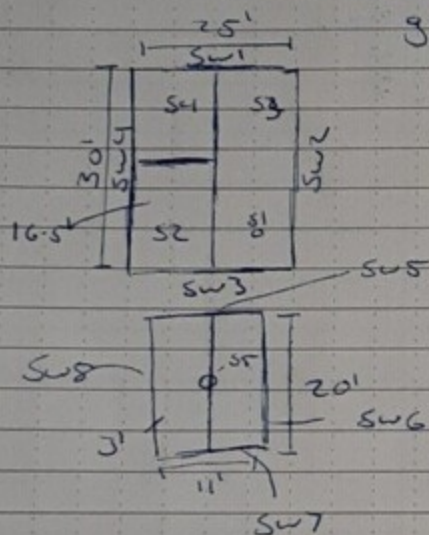
## Polar Lake

- April 9, 2021

Initial Samples S1-S4 and SW1-SW4 were collected at area of initial release for Polar Lake. Samples S1-S4 collected at 15' bgs. Each Sidenall had two samples collected, one at 4-15' and another at 0-4' bgs.

Water well within 1/2 mile has depth to groundwater greater than 100' bgs, allowing a wider closure criteria for lower portion of excavation.

Samples were submitted to Hell Labs in ABQ, NM.

- 5/17/21

SW2 @ 0-4' was extended another 2' to the east. New Confirmation Sample collected at this location cleared Field-Screening for chlorides and TPH.

The location of Sample S2 was extended down to 16.5' bgs. Field-Screening indicated that at this depth, S2 was clear of high chlorides and TPH.















# APPENDIX D

## LABORATORY ANALYTICAL REPORTS





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

April 21, 2021

Ashley Maxwell  
Souder, Miller & Associates  
201 S Halagueno  
Carlsbad, NM 88221  
TEL: (575) 689-8801  
FAX

RE: Poker Lake

OrderNo.: 2104602

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/14/2021 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](http://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 #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: S1

Project: Poker Lake

Collection Date: 4/9/2021 11:00:00 AM

Lab ID: 2104602-001

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 3:05:40 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	65	9.0		mg/Kg	1	4/16/2021 2:49:00 PM	59419
Motor Oil Range Organics (MRO)	73	45		mg/Kg	1	4/16/2021 2:49:00 PM	59419
Surr: DNOP	58.7	70-130	S	%Rec	1	4/16/2021 2:49:00 PM	59419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/16/2021 2:17:23 PM	59408
Surr: BFB	102	70-130	D	%Rec	5	4/16/2021 2:17:23 PM	59408
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.12	D	mg/Kg	5	4/16/2021 2:17:23 PM	59408
Toluene	ND	0.24	D	mg/Kg	5	4/16/2021 2:17:23 PM	59408
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/16/2021 2:17:23 PM	59408
Xylenes, Total	ND	0.48	D	mg/Kg	5	4/16/2021 2:17:23 PM	59408
Surr: 4-Bromofluorobenzene	94.8	70-130	D	%Rec	5	4/16/2021 2:17:23 PM	59408

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 19

## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: S2

Project: Poker Lake

Collection Date: 4/9/2021 11:05:00 AM

Lab ID: 2104602-002

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 3:18:04 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	1300	98		mg/Kg	10	4/19/2021 2:18:48 PM	59431
Motor Oil Range Organics (MRO)	870	490		mg/Kg	10	4/19/2021 2:18:48 PM	59431
Surr: DNOP	0	70-130	S	%Rec	10	4/19/2021 2:18:48 PM	59431
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	1600	25		mg/Kg	5	4/16/2021 11:38:00 AM	59417
Surr: BFB	537	70-130	S	%Rec	5	4/16/2021 11:38:00 AM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.12		mg/Kg	5	4/16/2021 11:38:00 AM	59417
Toluene	7.3	0.25		mg/Kg	5	4/16/2021 11:38:00 AM	59417
Ethylbenzene	7.6	0.25		mg/Kg	5	4/16/2021 11:38:00 AM	59417
Xylenes, Total	42	0.49		mg/Kg	5	4/16/2021 11:38:00 AM	59417
Surr: 4-Bromofluorobenzene	161	70-130	S	%Rec	5	4/16/2021 11:38:00 AM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: S3

Project: Poker Lake

Collection Date: 4/9/2021 11:10:00 AM

Lab ID: 2104602-003

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 3:30:28 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/19/2021 1:53:22 PM	59431
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/19/2021 1:53:22 PM	59431
Surr: DNOP	117	70-130		%Rec	1	4/19/2021 1:53:22 PM	59431
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/16/2021 12:58:00 PM	59417
Surr: BFB	106	70-130		%Rec	1	4/16/2021 12:58:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/16/2021 12:58:00 PM	59417
Toluene	ND	0.049		mg/Kg	1	4/16/2021 12:58:00 PM	59417
Ethylbenzene	ND	0.049		mg/Kg	1	4/16/2021 12:58:00 PM	59417
Xylenes, Total	ND	0.098		mg/Kg	1	4/16/2021 12:58:00 PM	59417
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	4/16/2021 12:58:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: S4

Project: Poker Lake

Collection Date: 4/9/2021 11:15:00 AM

Lab ID: 2104602-004

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	4/17/2021 3:42:53 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/19/2021 2:05:55 PM	59431
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/19/2021 2:05:55 PM	59431
Surr: DNOP	106	70-130		%Rec	1	4/19/2021 2:05:55 PM	59431
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/16/2021 1:57:00 PM	59417
Surr: BFB	94.8	70-130		%Rec	1	4/16/2021 1:57:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/16/2021 1:57:00 PM	59417
Toluene	ND	0.048		mg/Kg	1	4/16/2021 1:57:00 PM	59417
Ethylbenzene	ND	0.048		mg/Kg	1	4/16/2021 1:57:00 PM	59417
Xylenes, Total	ND	0.096		mg/Kg	1	4/16/2021 1:57:00 PM	59417
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	4/16/2021 1:57:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW1 0-4

Project: Poker Lake

Collection Date: 4/9/2021 11:20:00 AM

Lab ID: 2104602-005

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 3:55:17 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	31	9.3		mg/Kg	1	4/17/2021 12:52:48 PM	59446
Motor Oil Range Organics (MRO)	47	46		mg/Kg	1	4/17/2021 12:52:48 PM	59446
Surr: DNOP	108	70-130		%Rec	1	4/17/2021 12:52:48 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/16/2021 2:17:00 PM	59417
Surr: BFB	105	70-130		%Rec	1	4/16/2021 2:17:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	4/16/2021 2:17:00 PM	59417
Toluene	ND	0.047		mg/Kg	1	4/16/2021 2:17:00 PM	59417
Ethylbenzene	ND	0.047		mg/Kg	1	4/16/2021 2:17:00 PM	59417
Xylenes, Total	ND	0.094		mg/Kg	1	4/16/2021 2:17:00 PM	59417
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	4/16/2021 2:17:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW1 4-Base

Project: Poker Lake

Collection Date: 4/9/2021 11:25:00 AM

Lab ID: 2104602-006

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 4:32:31 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/17/2021 1:05:04 PM	59446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/17/2021 1:05:04 PM	59446
Surr: DNOP	99.4	70-130		%Rec	1	4/17/2021 1:05:04 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/16/2021 2:37:00 PM	59417
Surr: BFB	95.2	70-130		%Rec	1	4/16/2021 2:37:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/16/2021 2:37:00 PM	59417
Toluene	ND	0.048		mg/Kg	1	4/16/2021 2:37:00 PM	59417
Ethylbenzene	ND	0.048		mg/Kg	1	4/16/2021 2:37:00 PM	59417
Xylenes, Total	ND	0.096		mg/Kg	1	4/16/2021 2:37:00 PM	59417
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	4/16/2021 2:37:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW2 0-4

Project: Poker Lake

Collection Date: 4/9/2021 11:30:00 AM

Lab ID: 2104602-007

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 4:44:56 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	4/17/2021 1:17:22 PM	59446
Motor Oil Range Organics (MRO)	76	48		mg/Kg	1	4/17/2021 1:17:22 PM	59446
Surr: DNOP	99.2	70-130		%Rec	1	4/17/2021 1:17:22 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	8.7	4.9		mg/Kg	1	4/16/2021 2:57:00 PM	59417
Surr: BFB	133	70-130	S	%Rec	1	4/16/2021 2:57:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/16/2021 2:57:00 PM	59417
Toluene	0.16	0.049		mg/Kg	1	4/16/2021 2:57:00 PM	59417
Ethylbenzene	0.084	0.049		mg/Kg	1	4/16/2021 2:57:00 PM	59417
Xylenes, Total	0.52	0.097		mg/Kg	1	4/16/2021 2:57:00 PM	59417
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	4/16/2021 2:57:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW2 4-Base

Project: Poker Lake

Collection Date: 4/9/2021 11:35:00 AM

Lab ID: 2104602-008

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 4:57:21 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	19	9.7		mg/Kg	1	4/17/2021 1:29:39 PM	59446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/17/2021 1:29:39 PM	59446
Surr: DNOP	104	70-130		%Rec	1	4/17/2021 1:29:39 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/16/2021 3:17:00 PM	59417
Surr: BFB	97.9	70-130		%Rec	1	4/16/2021 3:17:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	4/16/2021 3:17:00 PM	59417
Toluene	ND	0.047		mg/Kg	1	4/16/2021 3:17:00 PM	59417
Ethylbenzene	ND	0.047		mg/Kg	1	4/16/2021 3:17:00 PM	59417
Xylenes, Total	ND	0.093		mg/Kg	1	4/16/2021 3:17:00 PM	59417
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	4/16/2021 3:17:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW3 0-4

Project: Poker Lake

Collection Date: 4/9/2021 11:40:00 AM

Lab ID: 2104602-009

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 5:09:45 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/17/2021 1:41:58 PM	59446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/17/2021 1:41:58 PM	59446
Surr: DNOP	107	70-130		%Rec	1	4/17/2021 1:41:58 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/16/2021 3:36:00 PM	59417
Surr: BFB	96.1	70-130		%Rec	1	4/16/2021 3:36:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	4/16/2021 3:36:00 PM	59417
Toluene	ND	0.050		mg/Kg	1	4/16/2021 3:36:00 PM	59417
Ethylbenzene	ND	0.050		mg/Kg	1	4/16/2021 3:36:00 PM	59417
Xylenes, Total	ND	0.10		mg/Kg	1	4/16/2021 3:36:00 PM	59417
Surr: 4-Bromofluorobenzene	80.5	70-130		%Rec	1	4/16/2021 3:36:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW3 4-Base

Project: Poker Lake

Collection Date: 4/9/2021 11:45:00 AM

Lab ID: 2104602-010

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 5:22:09 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/17/2021 1:54:17 PM	59446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/17/2021 1:54:17 PM	59446
Surr: DNOP	105	70-130		%Rec	1	4/17/2021 1:54:17 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/16/2021 3:56:00 PM	59417
Surr: BFB	96.2	70-130		%Rec	1	4/16/2021 3:56:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/16/2021 3:56:00 PM	59417
Toluene	ND	0.049		mg/Kg	1	4/16/2021 3:56:00 PM	59417
Ethylbenzene	ND	0.049		mg/Kg	1	4/16/2021 3:56:00 PM	59417
Xylenes, Total	ND	0.097		mg/Kg	1	4/16/2021 3:56:00 PM	59417
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	4/16/2021 3:56:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW4 0-4

Project: Poker Lake

Collection Date: 4/9/2021 11:50:00 AM

Lab ID: 2104602-011

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 5:34:33 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/17/2021 2:06:37 PM	59446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/17/2021 2:06:37 PM	59446
Surr: DNOP	106	70-130		%Rec	1	4/17/2021 2:06:37 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/16/2021 4:16:00 PM	59417
Surr: BFB	101	70-130		%Rec	1	4/16/2021 4:16:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	4/16/2021 4:16:00 PM	59417
Toluene	ND	0.046		mg/Kg	1	4/16/2021 4:16:00 PM	59417
Ethylbenzene	ND	0.046		mg/Kg	1	4/16/2021 4:16:00 PM	59417
Xylenes, Total	ND	0.093		mg/Kg	1	4/16/2021 4:16:00 PM	59417
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	4/16/2021 4:16:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2104602

Date Reported: 4/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW4 4-Base

Project: Poker Lake

Collection Date: 4/9/2021 11:55:00 AM

Lab ID: 2104602-012

Matrix: SOIL

Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	4/17/2021 5:46:57 PM	59463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/17/2021 2:19:05 PM	59446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/17/2021 2:19:05 PM	59446
Surr: DNOP	101	70-130		%Rec	1	4/17/2021 2:19:05 PM	59446
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/16/2021 5:36:00 PM	59417
Surr: BFB	95.4	70-130		%Rec	1	4/16/2021 5:36:00 PM	59417
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	4/16/2021 5:36:00 PM	59417
Toluene	ND	0.049		mg/Kg	1	4/16/2021 5:36:00 PM	59417
Ethylbenzene	ND	0.049		mg/Kg	1	4/16/2021 5:36:00 PM	59417
Xylenes, Total	ND	0.098		mg/Kg	1	4/16/2021 5:36:00 PM	59417
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	4/16/2021 5:36:00 PM	59417

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2104602

21-Apr-21

Client: Souder, Miller &amp; Associates

Project: Poker Lake

Sample ID: <b>MB-59463</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59463</b>	RunNo: <b>76755</b>								
Prep Date: <b>4/17/2021</b>	Analysis Date: <b>4/17/2021</b>	SeqNo: <b>2720021</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-59463</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59463</b>	RunNo: <b>76755</b>								
Prep Date: <b>4/17/2021</b>	Analysis Date: <b>4/17/2021</b>	SeqNo: <b>2720022</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

### 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  
PQL Practical Quantitative Limit  
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 Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104602

21-Apr-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>MB-59419</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59419</b>	RunNo: <b>76743</b>								
Prep Date: <b>4/15/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719680</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	70	130			

Sample ID: <b>LCS-59419</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59419</b>	RunNo: <b>76743</b>								
Prep Date: <b>4/15/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719681</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	68.9	141			
Surr: DNOP	5.6		5.000		111	70	130			

Sample ID: <b>MB-59446</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59446</b>	RunNo: <b>76757</b>								
Prep Date: <b>4/16/2021</b>	Analysis Date: <b>4/17/2021</b>	SeqNo: <b>2720105</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	70	130			

Sample ID: <b>LCS-59446</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59446</b>	RunNo: <b>76757</b>								
Prep Date: <b>4/16/2021</b>	Analysis Date: <b>4/17/2021</b>	SeqNo: <b>2720107</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.5	68.9	141			
Surr: DNOP	5.3		5.000		105	70	130			

Sample ID: <b>2104602-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S4</b>	Batch ID: <b>59446</b>	RunNo: <b>76757</b>								
Prep Date: <b>4/16/2021</b>	Analysis Date: <b>4/17/2021</b>	SeqNo: <b>2720109</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.64	0	91.7	15	184			
Surr: DNOP	4.7		4.664		101	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104602

21-Apr-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>2104602-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S4</b>	Batch ID: <b>59446</b>	RunNo: <b>76757</b>								
Prep Date: <b>4/16/2021</b>	Analysis Date: <b>4/17/2021</b>	SeqNo: <b>2720110</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.6	48.08	0	94.0	15	184	5.49	23.9	
Surr: DNOP	5.5		4.808		114	70	130	0	0	

Sample ID: <b>MB-59466</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59466</b>	RunNo: <b>76768</b>								
Prep Date: <b>4/17/2021</b>	Analysis Date: <b>4/19/2021</b>	SeqNo: <b>2721645</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		97.7	70	130			

Sample ID: <b>LCS-59466</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59466</b>	RunNo: <b>76768</b>								
Prep Date: <b>4/17/2021</b>	Analysis Date: <b>4/19/2021</b>	SeqNo: <b>2721651</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.9	70	130			

Sample ID: <b>MB-59465</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59465</b>	RunNo: <b>76768</b>								
Prep Date: <b>4/17/2021</b>	Analysis Date: <b>4/20/2021</b>	SeqNo: <b>2722493</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.1	70	130			

Sample ID: <b>LCS-59465</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59465</b>	RunNo: <b>76768</b>								
Prep Date: <b>4/17/2021</b>	Analysis Date: <b>4/20/2021</b>	SeqNo: <b>2722494</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.4	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104602

21-Apr-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>mb-59408</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59408</b>	RunNo: <b>76718</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/15/2021</b>	SeqNo: <b>2718245</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: <b>lcs-59408</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59408</b>	RunNo: <b>76718</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/15/2021</b>	SeqNo: <b>2718246</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: <b>lcs-59417</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59417</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719380</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: <b>mb-59417</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59417</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719381</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.4	70	130			

Sample ID: <b>lcs-59436</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59436</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/15/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719941</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	70	130			

Sample ID: <b>mb-59436</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59436</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/15/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719942</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.3	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104602

21-Apr-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>2104602-002ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S2</b>	Batch ID: <b>59417</b>		RunNo: <b>76739</b>							
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>		SeqNo: <b>2719988</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1500	25	123.0	1558	-16.9	61.3	114			S
Surr: BFB	27000		4921		544	70	130			S

Sample ID: <b>2104602-002amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S2</b>	Batch ID: <b>59417</b>		RunNo: <b>76739</b>							
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>		SeqNo: <b>2719989</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1500	24	122.3	1558	-41.9	61.3	114	2.00	20	S
Surr: BFB	27000		4892		551	70	130	0	0	S

**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  
PQL Practical Quantitative Limit  
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 Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104602

21-Apr-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>mb-59408</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59408</b>	RunNo: <b>76718</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/15/2021</b>	SeqNo: <b>2718297</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	70	130			

Sample ID: <b>LCS-59408</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59408</b>	RunNo: <b>76718</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/15/2021</b>	SeqNo: <b>2718298</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Sample ID: <b>lcs-59417</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59417</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719384</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.86	0.050	1.000	0	85.8	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.0	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		83.5	70	130			

Sample ID: <b>mb-59417</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59417</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719385</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.82		1.000		82.4	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104602

21-Apr-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>2104602-003ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S3</b>	Batch ID: <b>59417</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719963</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.023	0.9328	0	87.1	76.3	120			
Toluene	0.82	0.047	0.9328	0	87.8	78.5	120			
Ethylbenzene	0.84	0.047	0.9328	0	89.6	78.1	124			
Xylenes, Total	2.5	0.093	2.799	0	88.2	79.3	125			
Surr: 4-Bromofluorobenzene	0.77		0.9328		82.7	70	130			

Sample ID: <b>2104602-003amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S3</b>	Batch ID: <b>59417</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/14/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719964</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9950	0	85.4	80	120	4.46	20	
Toluene	0.85	0.050	0.9950	0	85.9	80	120	4.23	20	
Ethylbenzene	0.87	0.050	0.9950	0	87.8	80	120	4.44	20	
Xylenes, Total	2.6	0.10	2.985	0	86.4	80	120	4.38	20	
Surr: 4-Bromofluorobenzene	0.80		0.9950		80.4	70	130	0	0	

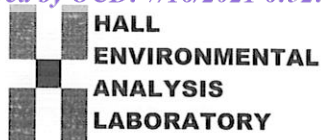
Sample ID: <b>lcs-59436</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59436</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/15/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719975</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

Sample ID: <b>mb-59436</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59436</b>	RunNo: <b>76739</b>								
Prep Date: <b>4/15/2021</b>	Analysis Date: <b>4/16/2021</b>	SeqNo: <b>2719976</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit



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

## Sample Log-In Check List

Client Name: **Souder, Miller & Associates**

Work Order Number: **2104602**

RcptNo: 1

Received By: **Juan Rojas**

4/14/2021 7:32:00 AM

*Juan Rojas*

Completed By: **Cheyenne Cason**

4/14/2021 8:07:54 AM

Reviewed By: **SPA 4.4.21**

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 10  
4/14/21  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. 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: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good				



## Chain-of-Custody Record

Client: SMA - Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 5-01-04

Project Name:

Project #: Poker Lake

Project Manager:

Sampler: Ashley MaxwellOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CP): 2.74 ± 0.30 (°C)

Container Type and #

Preservative Type

HEAL No.

Total Coliform (Present/Absent)

8270 (Semi-VOA)

8260 (VOA)

Cl, F, Br, NO<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>

RCRA 8 Metals

PAHs by 8310 or 8270SIMS

EDB (Method 504.1)

8081 Pesticides/8082 PCB's

TPH: 8015D(GRO / DRO / MRO)

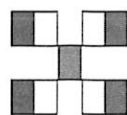
BTX: MTBE / TMB's (8021)

Date: 4/13/21 Time: 1230Received by: [Signature]

Via:

Date: 4/13/21 Time: 1230Date: 4/13/21 Time: 1900Relinquished by: [Signature]

Via:

Date: 4/13/21 Time: 1900Remarks: EnterpriseHALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

May 04, 2021

Ashley Maxwell  
Souder, Miller & Associates  
201 S Halagueno  
Carlsbad, NM 88221  
TEL: (575) 689-8801  
FAX:

RE: Poker Lake

OrderNo.: 2105001

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 15 sample(s) on 5/1/2021 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](http://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 #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CS1

Project: Poker Lake

Collection Date: 4/30/2021 11:00:00 AM

Lab ID: 2105001-001

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 12:09:30 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	5/1/2021 7:00:56 PM	59752
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 7:00:56 PM	59752
Surr: DNOP	98.0	70-130		%Rec	1	5/1/2021 7:00:56 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/3/2021 9:17:25 AM	G77102
Surr: BFB	93.3	70-130		%Rec	1	5/3/2021 9:17:25 AM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.021		mg/Kg	1	5/3/2021 9:17:25 AM	B77102
Toluene	ND	0.042		mg/Kg	1	5/3/2021 9:17:25 AM	B77102
Ethylbenzene	ND	0.042		mg/Kg	1	5/3/2021 9:17:25 AM	B77102
Xylenes, Total	ND	0.085		mg/Kg	1	5/3/2021 9:17:25 AM	B77102
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/3/2021 9:17:25 AM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CS3

Project: Poker Lake

Collection Date: 4/30/2021 11:05:00 AM

Lab ID: 2105001-002

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 12:21:54 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	25	9.8		mg/Kg	1	5/1/2021 7:30:30 PM	59752
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 7:30:30 PM	59752
Surr: DNOP	96.0	70-130		%Rec	1	5/1/2021 7:30:30 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	5/3/2021 9:41:14 AM	G77102
Surr: BFB	92.3	70-130		%Rec	1	5/3/2021 9:41:14 AM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.019		mg/Kg	1	5/3/2021 9:41:14 AM	B77102
Toluene	ND	0.038		mg/Kg	1	5/3/2021 9:41:14 AM	B77102
Ethylbenzene	ND	0.038		mg/Kg	1	5/3/2021 9:41:14 AM	B77102
Xylenes, Total	ND	0.077		mg/Kg	1	5/3/2021 9:41:14 AM	B77102
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/3/2021 9:41:14 AM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CS4

Project: Poker Lake

Collection Date: 4/30/2021 11:10:00 AM

Lab ID: 2105001-003

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	5/1/2021 12:34:18 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/1/2021 7:40:21 PM	59752
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 7:40:21 PM	59752
Surr: DNOP	125	70-130		%Rec	1	5/1/2021 7:40:21 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/3/2021 10:05:02 AM	G77102
Surr: BFB	91.9	70-130		%Rec	1	5/3/2021 10:05:02 AM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.021		mg/Kg	1	5/3/2021 10:05:02 AM	B77102
Toluene	ND	0.042		mg/Kg	1	5/3/2021 10:05:02 AM	B77102
Ethylbenzene	ND	0.042		mg/Kg	1	5/3/2021 10:05:02 AM	B77102
Xylenes, Total	ND	0.083		mg/Kg	1	5/3/2021 10:05:02 AM	B77102
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/3/2021 10:05:02 AM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CS5

Project: Poker Lake

Collection Date: 4/30/2021 11:15:00 AM

Lab ID: 2105001-004

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	5/1/2021 12:46:42 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/1/2021 7:50:07 PM	59752
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 7:50:07 PM	59752
Surr: DNOP	99.0	70-130		%Rec	1	5/1/2021 7:50:07 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	5/3/2021 10:28:46 AM	G77102
Surr: BFB	91.9	70-130		%Rec	1	5/3/2021 10:28:46 AM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.015		mg/Kg	1	5/3/2021 10:28:46 AM	B77102
Toluene	ND	0.029		mg/Kg	1	5/3/2021 10:28:46 AM	B77102
Ethylbenzene	ND	0.029		mg/Kg	1	5/3/2021 10:28:46 AM	B77102
Xylenes, Total	ND	0.059		mg/Kg	1	5/3/2021 10:28:46 AM	B77102
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/3/2021 10:28:46 AM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW1-0-4

Project: Poker Lake

Collection Date: 4/30/2021 11:20:00 AM

Lab ID: 2105001-005

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 12:59:07 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	14	9.7		mg/Kg	1	5/1/2021 7:59:59 PM	59752
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 7:59:59 PM	59752
Surr: DNOP	97.2	70-130		%Rec	1	5/1/2021 7:59:59 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/3/2021 10:52:29 AM	G77102
Surr: BFB	95.2	70-130		%Rec	1	5/3/2021 10:52:29 AM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	5/3/2021 10:52:29 AM	B77102
Toluene	ND	0.033		mg/Kg	1	5/3/2021 10:52:29 AM	B77102
Ethylbenzene	ND	0.033		mg/Kg	1	5/3/2021 10:52:29 AM	B77102
Xylenes, Total	ND	0.066		mg/Kg	1	5/3/2021 10:52:29 AM	B77102
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/3/2021 10:52:29 AM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW1 4-Base

Project: Poker Lake

Collection Date: 4/30/2021 11:25:00 AM

Lab ID: 2105001-006

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 1:11:31 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/1/2021 8:09:45 PM	59752
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/1/2021 8:09:45 PM	59752
Surr: DNOP	93.4	70-130		%Rec	1	5/1/2021 8:09:45 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	5/3/2021 11:16:05 AM	G77102
Surr: BFB	94.2	70-130		%Rec	1	5/3/2021 11:16:05 AM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	5/3/2021 11:16:05 AM	B77102
Toluene	ND	0.035		mg/Kg	1	5/3/2021 11:16:05 AM	B77102
Ethylbenzene	ND	0.035		mg/Kg	1	5/3/2021 11:16:05 AM	B77102
Xylenes, Total	ND	0.070		mg/Kg	1	5/3/2021 11:16:05 AM	B77102
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/3/2021 11:16:05 AM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW2 4-Base

Project: Poker Lake

Collection Date: 4/30/2021 11:30:00 AM

Lab ID: 2105001-007

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 1:23:55 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/1/2021 8:19:40 PM	59752
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 8:19:40 PM	59752
Surr: DNOP	93.4	70-130		%Rec	1	5/1/2021 8:19:40 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	2.6		mg/Kg	1	5/3/2021 11:39:41 AM	G77102
Surr: BFB	91.6	70-130		%Rec	1	5/3/2021 11:39:41 AM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.013		mg/Kg	1	5/3/2021 11:39:41 AM	B77102
Toluene	ND	0.026		mg/Kg	1	5/3/2021 11:39:41 AM	B77102
Ethylbenzene	ND	0.026		mg/Kg	1	5/3/2021 11:39:41 AM	B77102
Xylenes, Total	ND	0.052		mg/Kg	1	5/3/2021 11:39:41 AM	B77102
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/3/2021 11:39:41 AM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW3 0-4

Project: Poker Lake

Collection Date: 4/30/2021 11:35:00 AM

Lab ID: 2105001-008

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 1:36:20 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/1/2021 8:29:29 PM	59752
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/1/2021 8:29:29 PM	59752
Surr: DNOP	96.4	70-130		%Rec	1	5/1/2021 8:29:29 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	5/3/2021 12:03:25 PM	G77102
Surr: BFB	90.1	70-130		%Rec	1	5/3/2021 12:03:25 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	5/3/2021 12:03:25 PM	B77102
Toluene	ND	0.032		mg/Kg	1	5/3/2021 12:03:25 PM	B77102
Ethylbenzene	ND	0.032		mg/Kg	1	5/3/2021 12:03:25 PM	B77102
Xylenes, Total	ND	0.063		mg/Kg	1	5/3/2021 12:03:25 PM	B77102
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/3/2021 12:03:25 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW3 4-Base

Project: Poker Lake

Collection Date: 4/30/2021 11:40:00 AM

Lab ID: 2105001-009

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	5/1/2021 2:13:33 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/1/2021 8:39:20 PM	59752
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 8:39:20 PM	59752
Surr: DNOP	95.2	70-130		%Rec	1	5/1/2021 8:39:20 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/3/2021 12:27:03 PM	G77102
Surr: BFB	92.3	70-130		%Rec	1	5/3/2021 12:27:03 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.019		mg/Kg	1	5/3/2021 12:27:03 PM	B77102
Toluene	ND	0.037		mg/Kg	1	5/3/2021 12:27:03 PM	B77102
Ethylbenzene	ND	0.037		mg/Kg	1	5/3/2021 12:27:03 PM	B77102
Xylenes, Total	ND	0.074		mg/Kg	1	5/3/2021 12:27:03 PM	B77102
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/3/2021 12:27:03 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW4 0-4

Project: Poker Lake

Collection Date: 4/30/2021 11:45:00 AM

Lab ID: 2105001-010

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	5/1/2021 2:25:58 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/1/2021 8:49:16 PM	59752
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/1/2021 8:49:16 PM	59752
Surr: DNOP	96.1	70-130		%Rec	1	5/1/2021 8:49:16 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/3/2021 12:50:40 PM	G77102
Surr: BFB	91.8	70-130		%Rec	1	5/3/2021 12:50:40 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	5/3/2021 12:50:40 PM	B77102
Toluene	ND	0.037		mg/Kg	1	5/3/2021 12:50:40 PM	B77102
Ethylbenzene	ND	0.037		mg/Kg	1	5/3/2021 12:50:40 PM	B77102
Xylenes, Total	ND	0.074		mg/Kg	1	5/3/2021 12:50:40 PM	B77102
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/3/2021 12:50:40 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW4 4-Base

Project: Poker Lake

Collection Date: 4/30/2021 11:50:00 AM

Lab ID: 2105001-011

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1700	61		mg/Kg	20	5/1/2021 2:38:22 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	63	19		mg/Kg	2	5/3/2021 9:52:47 AM	59752
Motor Oil Range Organics (MRO)	1500	95		mg/Kg	2	5/3/2021 9:52:47 AM	59752
Surr: DNOP	0	70-130	S	%Rec	2	5/3/2021 9:52:47 AM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/3/2021 1:38:04 PM	G77102
Surr: BFB	88.5	70-130		%Rec	1	5/3/2021 1:38:04 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	5/3/2021 1:38:04 PM	B77102
Toluene	ND	0.033		mg/Kg	1	5/3/2021 1:38:04 PM	B77102
Ethylbenzene	ND	0.033		mg/Kg	1	5/3/2021 1:38:04 PM	B77102
Xylenes, Total	ND	0.066		mg/Kg	1	5/3/2021 1:38:04 PM	B77102
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	5/3/2021 1:38:04 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW5

Project: Poker Lake

Collection Date: 4/30/2021 11:55:00 AM

Lab ID: 2105001-012

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 2:50:46 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/1/2021 9:18:48 PM	59752
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 9:18:48 PM	59752
Surr: DNOP	97.2	70-130		%Rec	1	5/1/2021 9:18:48 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	5/3/2021 2:01:52 PM	G77102
Surr: BFB	90.9	70-130		%Rec	1	5/3/2021 2:01:52 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	5/3/2021 2:01:52 PM	B77102
Toluene	ND	0.039		mg/Kg	1	5/3/2021 2:01:52 PM	B77102
Ethylbenzene	ND	0.039		mg/Kg	1	5/3/2021 2:01:52 PM	B77102
Xylenes, Total	ND	0.078		mg/Kg	1	5/3/2021 2:01:52 PM	B77102
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/3/2021 2:01:52 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW6

Project: Poker Lake

Collection Date: 4/30/2021 12:00:00 PM

Lab ID: 2105001-013

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	5/1/2021 3:03:10 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/1/2021 9:28:42 PM	59752
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 9:28:42 PM	59752
Surr: DNOP	98.4	70-130		%Rec	1	5/1/2021 9:28:42 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/3/2021 2:25:21 PM	G77102
Surr: BFB	89.8	70-130		%Rec	1	5/3/2021 2:25:21 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	5/3/2021 2:25:21 PM	B77102
Toluene	ND	0.033		mg/Kg	1	5/3/2021 2:25:21 PM	B77102
Ethylbenzene	ND	0.033		mg/Kg	1	5/3/2021 2:25:21 PM	B77102
Xylenes, Total	ND	0.065		mg/Kg	1	5/3/2021 2:25:21 PM	B77102
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/3/2021 2:25:21 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW7

Project: Poker Lake

Collection Date: 4/30/2021 12:05:00 PM

Lab ID: 2105001-014

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/1/2021 3:15:35 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	5/1/2021 9:38:34 PM	59752
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/1/2021 9:38:34 PM	59752
Surr: DNOP	99.2	70-130		%Rec	1	5/1/2021 9:38:34 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	5/3/2021 2:48:51 PM	G77102
Surr: BFB	90.2	70-130		%Rec	1	5/3/2021 2:48:51 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.015		mg/Kg	1	5/3/2021 2:48:51 PM	B77102
Toluene	ND	0.030		mg/Kg	1	5/3/2021 2:48:51 PM	B77102
Ethylbenzene	ND	0.030		mg/Kg	1	5/3/2021 2:48:51 PM	B77102
Xylenes, Total	ND	0.061		mg/Kg	1	5/3/2021 2:48:51 PM	B77102
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	5/3/2021 2:48:51 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2105001

Date Reported: 5/4/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CSW8

Project: Poker Lake

Collection Date: 4/30/2021 12:10:00 PM

Lab ID: 2105001-015

Matrix: MEOH (SOIL)

Received Date: 5/1/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	5/1/2021 3:27:59 PM	59753
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/1/2021 9:48:34 PM	59752
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/1/2021 9:48:34 PM	59752
Surr: DNOP	102	70-130		%Rec	1	5/1/2021 9:48:34 PM	59752
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/3/2021 3:12:19 PM	G77102
Surr: BFB	92.6	70-130		%Rec	1	5/3/2021 3:12:19 PM	G77102
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	5/3/2021 3:12:19 PM	B77102
Toluene	ND	0.034		mg/Kg	1	5/3/2021 3:12:19 PM	B77102
Ethylbenzene	ND	0.034		mg/Kg	1	5/3/2021 3:12:19 PM	B77102
Xylenes, Total	ND	0.067		mg/Kg	1	5/3/2021 3:12:19 PM	B77102
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/3/2021 3:12:19 PM	B77102

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105001

04-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>MB-59753</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59753</b>	RunNo: <b>77084</b>								
Prep Date: <b>5/1/2021</b>	Analysis Date: <b>5/1/2021</b>	SeqNo: <b>2732632</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-59753</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59753</b>	RunNo: <b>77084</b>								
Prep Date: <b>5/1/2021</b>	Analysis Date: <b>5/1/2021</b>	SeqNo: <b>2732633</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

**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  
PQL Practical Quantitative Limit  
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 Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105001

04-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>LCS-59724</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>59724</b>		RunNo: <b>77087</b>							
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/1/2021</b>		SeqNo: <b>2732831</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: <b>LCS-59746</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>59746</b>		RunNo: <b>77087</b>							
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/1/2021</b>		SeqNo: <b>2732834</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	70	130			

Sample ID: <b>LCS-59752</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>59752</b>		RunNo: <b>77087</b>							
Prep Date: <b>5/1/2021</b>	Analysis Date: <b>5/1/2021</b>		SeqNo: <b>2732837</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.8	68.9	141			
Surr: DNOP	4.4		5.000		87.1	70	130			

Sample ID: <b>MB-59724</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>59724</b>		RunNo: <b>77087</b>							
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/1/2021</b>		SeqNo: <b>2732844</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		94.9	70	130			

Sample ID: <b>MB-59746</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>59746</b>		RunNo: <b>77087</b>							
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/1/2021</b>		SeqNo: <b>2732846</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		94.6	70	130			

Sample ID: <b>MB-59752</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>59752</b>		RunNo: <b>77087</b>							
Prep Date: <b>5/1/2021</b>	Analysis Date: <b>5/1/2021</b>		SeqNo: <b>2732847</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.5	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit

Page 17 of 21

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105001

04-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>2105001-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>CS1</b>	Batch ID: <b>59752</b>	RunNo: <b>77087</b>								
Prep Date: <b>5/1/2021</b>	Analysis Date: <b>5/1/2021</b>	SeqNo: <b>2732930</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	9.5	47.48	17.45	96.4	15	184			
Surr: DNOP	4.5		4.748		94.5	70	130			

Sample ID: <b>2105001-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>CS1</b>	Batch ID: <b>59752</b>	RunNo: <b>77087</b>								
Prep Date: <b>5/1/2021</b>	Analysis Date: <b>5/1/2021</b>	SeqNo: <b>2732931</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	9.7	48.26	17.45	86.5	15	184	6.60	23.9	
Surr: DNOP	4.5		4.826		94.1	70	130	0	0	

Sample ID: <b>MB-59723</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59723</b>	RunNo: <b>77092</b>								
Prep Date: <b>4/29/2021</b>	Analysis Date: <b>5/3/2021</b>	SeqNo: <b>2733162</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	70	130			

Sample ID: <b>LCS-59723</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59723</b>	RunNo: <b>77092</b>								
Prep Date: <b>4/29/2021</b>	Analysis Date: <b>5/3/2021</b>	SeqNo: <b>2733163</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		117	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit

Page 18 of 21

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105001

04-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>G77102</b>		RunNo: <b>77102</b>							
Prep Date:	Analysis Date: <b>5/3/2021</b>		SeqNo: <b>2733575</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.5	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>G77102</b>		RunNo: <b>77102</b>							
Prep Date:	Analysis Date: <b>5/3/2021</b>		SeqNo: <b>2733576</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.2	78.6	131			
Surr: BFB	1100		1000		106	70	130			

Sample ID: <b>2105001-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>CS1</b>	Batch ID: <b>G77102</b>		RunNo: <b>77102</b>							
Prep Date:	Analysis Date: <b>5/3/2021</b>		SeqNo: <b>2733580</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.2	21.19	0	91.2	61.3	114			
Surr: BFB	910		847.5		108	70	130			

Sample ID: <b>2105001-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>CS1</b>	Batch ID: <b>G77102</b>		RunNo: <b>77102</b>							
Prep Date:	Analysis Date: <b>5/3/2021</b>		SeqNo: <b>2733588</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.2	21.19	0	92.2	61.3	114	1.13	20	
Surr: BFB	920		847.5		109	70	130	0	0	

Sample ID: <b>mb-59749</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>59749</b>		RunNo: <b>77102</b>							
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/3/2021</b>		SeqNo: <b>2733595</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.9	70	130			

Sample ID: <b>lcs-59749</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>59749</b>		RunNo: <b>77102</b>							
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/3/2021</b>		SeqNo: <b>2733601</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105001

04-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B77102</b>	RunNo: <b>77102</b>								
Prep Date:	Analysis Date: <b>5/3/2021</b>	SeqNo: <b>2733708</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.5	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B77102</b>	RunNo: <b>77102</b>								
Prep Date:	Analysis Date: <b>5/3/2021</b>	SeqNo: <b>2733709</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: <b>2105001-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>CS3</b>	Batch ID: <b>B77102</b>	RunNo: <b>77102</b>								
Prep Date:	Analysis Date: <b>5/3/2021</b>	SeqNo: <b>2733710</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.019	0.7675	0	104	76.3	120			
Toluene	0.80	0.038	0.7675	0	104	78.5	120			
Ethylbenzene	0.79	0.038	0.7675	0	103	78.1	124			
Xylenes, Total	2.4	0.077	2.302	0	103	79.3	125			
Surr: 4-Bromofluorobenzene	0.81		0.7675		106	70	130			

Sample ID: <b>2105001-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>CS3</b>	Batch ID: <b>B77102</b>	RunNo: <b>77102</b>								
Prep Date:	Analysis Date: <b>5/3/2021</b>	SeqNo: <b>2733711</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.019	0.7675	0	101	80	120	2.47	20	
Toluene	0.78	0.038	0.7675	0	102	80	120	2.11	20	
Ethylbenzene	0.78	0.038	0.7675	0	102	80	120	1.18	20	
Xylenes, Total	2.3	0.077	2.302	0	101	80	120	1.79	20	
Surr: 4-Bromofluorobenzene	0.82		0.7675		107	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  
PQL Practical Quantitative Limit  
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 Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105001

04-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>mb-59749</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>59749</b>			RunNo: <b>77102</b>						
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/3/2021</b>			SeqNo: <b>2733712</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>LCS-59749</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>59749</b>			RunNo: <b>77102</b>						
Prep Date: <b>4/30/2021</b>	Analysis Date: <b>5/3/2021</b>			SeqNo: <b>2733713</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit



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

## Sample Log-In Check List

Client Name: **Souder, Miller & Associates**

Work Order Number: **2105001**

RcptNo: 1

Received By: **Cheyenne Cason**

5/1/2021 9:20:00 AM

*CC*

Completed By: **Cheyenne Cason**

5/1/2021 9:41:04 AM

*CC*

Reviewed By: *CC 05/01/2021*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. 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: *CC 5/1/21*

### Special Handling (if applicable)

15. 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:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good				









Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

May 11, 2021

Ashley Maxwell  
Souder, Miller & Associates  
201 S Halagueno  
Carlsbad, NM 88221  
TEL: (575) 689-7040  
FAX:

RE: Poker Lake

OrderNo.: 2105385

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/8/2021 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](http://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 #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2105385

Date Reported: 5/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: SW2 0-4

Project: Poker Lake

Collection Date: 5/7/2021 10:30:00 AM

Lab ID: 2105385-001

Matrix: SOIL

Received Date: 5/8/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/8/2021 11:34:10 AM	59891
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	31	9.5		mg/Kg	1	5/8/2021 3:52:32 PM	59890
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/8/2021 3:52:32 PM	59890
Surr: DNOP	98.7	70-130		%Rec	1	5/8/2021 3:52:32 PM	59890
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/10/2021 10:24:45 AM	59887
Surr: BFB	88.3	70-130		%Rec	1	5/10/2021 10:24:45 AM	59887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/10/2021 10:24:45 AM	59887
Toluene	ND	0.050		mg/Kg	1	5/10/2021 10:24:45 AM	59887
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 10:24:45 AM	59887
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2021 10:24:45 AM	59887
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	5/10/2021 10:24:45 AM	59887

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 6

## Analytical Report

Lab Order 2105385

Date Reported: 5/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller &amp; Associates

Client Sample ID: CS2

Project: Poker Lake

Collection Date: 5/7/2021 10:45:00 AM

Lab ID: 2105385-002

Matrix: SOIL

Received Date: 5/8/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	5/8/2021 11:46:34 AM	59891
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/8/2021 4:16:31 PM	59890
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/8/2021 4:16:31 PM	59890
Surr: DNOP	95.8	70-130		%Rec	1	5/8/2021 4:16:31 PM	59890
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/10/2021 10:48:19 AM	59887
Surr: BFB	92.8	70-130		%Rec	1	5/10/2021 10:48:19 AM	59887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/10/2021 10:48:19 AM	59887
Toluene	ND	0.050		mg/Kg	1	5/10/2021 10:48:19 AM	59887
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 10:48:19 AM	59887
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 10:48:19 AM	59887
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/10/2021 10:48:19 AM	59887

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 6

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105385

11-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>MB-59891</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59891</b>	RunNo: <b>77242</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/8/2021</b>	SeqNo: <b>2739133</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-59891</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59891</b>	RunNo: <b>77242</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/8/2021</b>	SeqNo: <b>2739134</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

**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  
PQL Practical Quantitative Limit  
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 Limit

Page 3 of 6

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105385

11-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>MB-59890</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>59890</b>		RunNo: <b>77247</b>							
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/8/2021</b>		SeqNo: <b>2740470</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.8	70	130			

Sample ID: <b>LCS-59890</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>59890</b>		RunNo: <b>77247</b>							
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/8/2021</b>		SeqNo: <b>2740471</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	68.9	141			
Surr: DNOP	4.4		5.000		88.1	70	130			

**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  
PQL Practical Quantitative Limit  
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 Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105385

11-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>MB-59887</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740941</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.9	70	130			

Sample ID: <b>lcs-59887</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740942</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	78.6	131			
Surr: BFB	1000		1000		104	70	130			

Sample ID: <b>2105385-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SW2 0-4</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740955</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.95	0	99.8	61.3	114			
Surr: BFB	1000		998.0		105	70	130			

Sample ID: <b>2105385-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SW2 0-4</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740956</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.80	0	98.1	61.3	114	2.25	20	
Surr: BFB	1000		992.1		104	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  
PQL Practical Quantitative Limit  
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 Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105385

11-May-21

**Client:** Souder, Miller & Associates**Project:** Poker Lake

Sample ID: <b>MB-59887</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740963</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: <b>LCS-59887</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740964</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.5	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: <b>2105385-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>CS2</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740979</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9794	0	97.0	76.3	120			
Toluene	0.97	0.049	0.9794	0	98.8	78.5	120			
Ethylbenzene	0.96	0.049	0.9794	0	98.4	78.1	124			
Xylenes, Total	2.9	0.098	2.938	0	98.5	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9794		107	70	130			

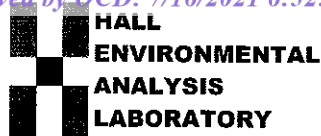
Sample ID: <b>2105385-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>CS2</b>	Batch ID: <b>59887</b>	RunNo: <b>77262</b>								
Prep Date: <b>5/8/2021</b>	Analysis Date: <b>5/10/2021</b>	SeqNo: <b>2740980</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9950	0	95.1	80	120	0.377	20	
Toluene	0.96	0.050	0.9950	0	96.8	80	120	0.444	20	
Ethylbenzene	0.96	0.050	0.9950	0	96.1	80	120	0.816	20	
Xylenes, Total	2.9	0.10	2.985	0	97.4	80	120	0.463	20	
Surr: 4-Bromofluorobenzene	1.0		0.9950		105	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  
PQL Practical Quantitative Limit  
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 Limit





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

## Sample Log-In Check List

Client Name: **Souder, Miller & Associates**

Work Order Number: **2105385**

RcptNo: 1

Received By: **Isaiah Ortiz**

5/7/2021 2:30:00 PM

*IOx*

Completed By: **Isaiah Ortiz**

5/8/2021 9:03:55 AM

*IOx*

Reviewed By: *PN* 05/08/2021

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: *IO*  
*5/8/21*  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. 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: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			



**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**

CONDITIONS  
  
Action 36598

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 36598
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/19/2021