

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	nAPP2201335979
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: 3/23/22

email: rhodunaway@eprod.com Telephone: 575-628-6802

Incident ID	
District RP	
Facility ID	
Application ID	

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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: Jennifer Nobui Date: 03/30/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A



March 23, 2022

#5E29921-BG23

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

SUBJECT: Remediation Closure Report for the Poker Lake Discharge Release (NAPP2201335979), 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 a natural gas and condensate release related to oil and gas production activities at the Poker Lake Discharge Release (NAPP2201335979). The release site is located in Unit B, Section 30, Township 24S, Range 30E, Eddy County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map.

This report demonstrates that the release area has been remediated to meet the standards of Table I of 19.15.29.12 New Mexico Administrative Code (NMAC). The information provided in this report is intended to fulfill final New Mexico Oil Conservation Division (NMOCD) closure requirements.

The gas portion of this release constitutes venting that occurred during an emergency or malfunction, as authorized by NMOCD regulations at NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A.

**SMA recommends no further action and requests that the releases associated with the Poker Lake Discharge Release (NAPP2201335979).**

Table 1 summarizes release information and Closure Criteria.

<b>Table 1: Release Information and Closure Criteria</b>			
Name	Poker Lake Discharge	Company	Enterprise Field Services LLC
API Number	N/A	Location	32.193848, -103.917747
Tracking Number	NAPP2201335979		
Estimated Date of Release	January 12, 2022	Date Reported to NMOCD	January 14, 2022
Land Owner	Federal	Reported To	NMOCD District II
Source of Release	Leak on a gathering pipeline		
Released Volume	279 Mcf, 1.0 bbl	Released Material	Natural Gas, Condensate
Recovered Volume	0 Mcf, 0 bbl	Net Release	279 Mcf, 1.0 bbl
NMOCD Closure Criteria	<50 feet		

Poker Lake Discharge Closure Report Page 2 of 4  
March 23, 2022

SMA Response Dates	January 25, 2022
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## **2.0 Background**

On January 12, 2022, a natural gas and condensate release was discovered at the Poker Lake Discharge site. 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 site location; Figure 2 illustrates the release location. The initial C-141 form is included in Appendix A.

## **3.0 Site Information and Closure Criteria**

The Poker Lake Discharge site is located approximately 9 miles east of Malaga, New Mexico on Federal (BLM) land at an elevation of approximately 3,160 feet above mean sea level (amsl).

### Depth to Groundwater

A search of the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System did not yielded any results within ½-mile of the site (Appendix B). Thus, depth to groundwater is considered to be less than 50 feet below grade surface (bgs) for Closure Criteria determinations.

### Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the OSE NMWRRS and USGS National Water Information System. Registered wells in the vicinity are shown on Figure 1.

### Distance to Nearest Significant Watercourse

The nearest significant watercourse is a tributary in Pierce Canyon, located approximately 1,085 feet to the southwest.

Table 2 demonstrates the Closure Criteria applicable to this location. Figures 1 and 2 illustrate the 200 and 300-foot radii which indicate that the site does not lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

## **4.0 Release Characterization and Remediation Activities**

On January 25, 2022, following pipeline repair and excavation activities, SMA personnel performed closure confirmation sampling.

Fifteen (15) composite confirmation samples were collected from the excavation for laboratory analysis for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D. Excavation samples were composed of 5-point composites collected every 200 square feet in accordance with the sampling protocol included in Appendix C.

Poker Lake Discharge Closure Report Page 3 of 4  
March 23, 2022

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. Field notes are included in Appendix D.

The final remediation excavation measured approximately 25 feet by 15 feet with a maximum depth of 12 feet.

Excavation extents and closure confirmation sample locations are depicted in Figure 3. A photo log is included in Appendix D. Confirmation laboratory results are summarized in Table 3. Laboratory reports are included in Appendix E.

**5.0 Recommendations**

As demonstrated in Table 3, all closure confirmation samples meet NMOCD Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Excavated soils were removed and replaced with clean backfill material to return the surface to previous contours. All excavated 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 Number NAPP2201335979.

**6.0 Scope and Limitations**

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; 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.

If there are any questions regarding this report, please contact Ashley Maxwell at 505-320-8975.

Submitted by:  
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Ashley Maxwell  
Project Scientist



Reid S. Allan, P.G.  
Sr. Vice President

Poker Lake Discharge Closure Report Page 4 of 4  
March 23, 2022

**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 2/22/2022

USGS National Water Information System: Web Interface online water well database  
[https://nwis.waterdata.usgs.gov/nwis/gwlevels?site\\_no=321205103544701&agency\\_cd=USGS&format=html](https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS&format=html); accessed 2/22/2022

**ATTACHMENTS:**

**Figures:**

- Figure 1: Site Map
- Figure 2: Surface Water Protection Map
- Figure 3: Site and Sample Location Map

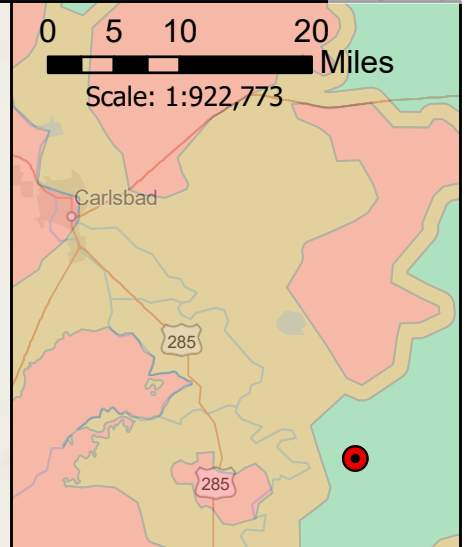
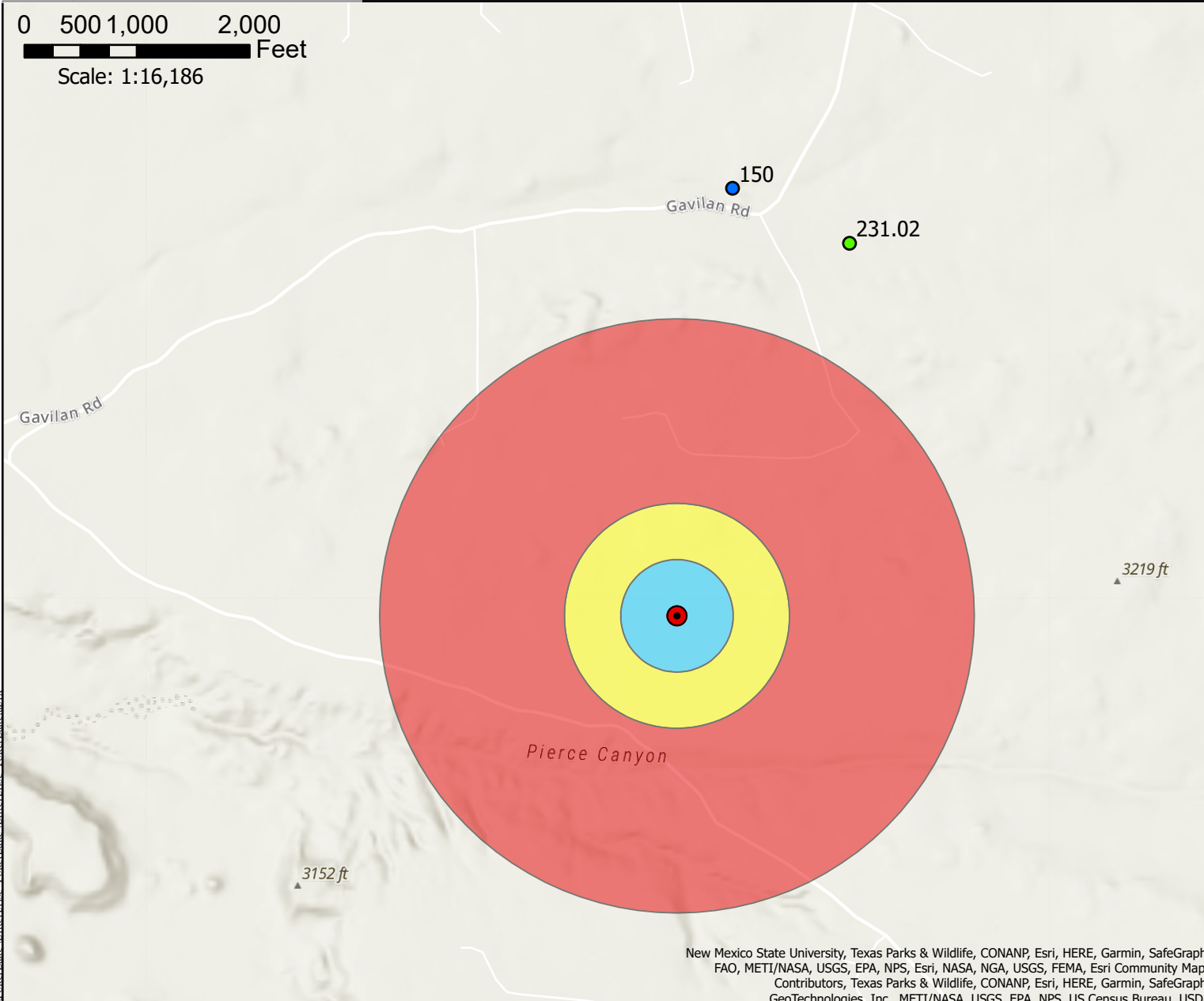
**Tables:**

- Table 2: NMOCD Closure Criteria Justification
- Table 3: Summary of Sample Results

**Appendices:**

- Appendix A: Form C-141
- Appendix B: Water Well Data
- Appendix C: Sampling Protocol
- Appendix D: Field Notes and Photo Log
- Appendix E: Laboratory Analytical Reports

# FIGURES



**Legend**

- USGS GW Well
- OSE Depth to GW
- Point of Release

**Buffer Distance**

- 500 feet
- 1000 feet
- 0.5 mile

**Karst Potential**

- High
- Medium
- Low

**N**

**Point of Release Coordinates:**  
 -103.917747W 32.193848N

**Site Map**  
 Poker Lake Discharge- Enterprise Field Services LLC  
 UL: B S: 30 T: 24S R: 30E, Eddy, New Mexico

Figure 1

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

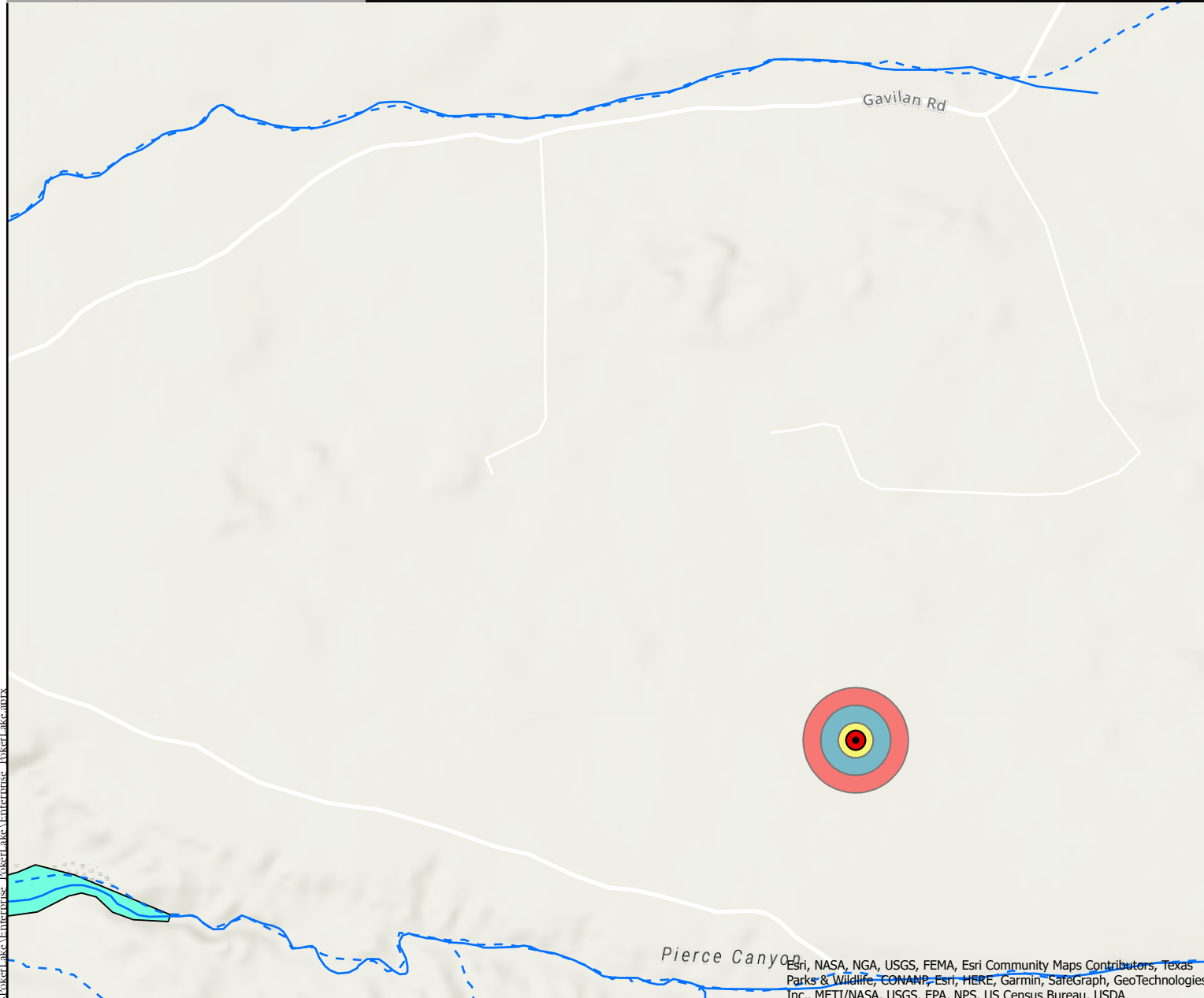
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Drawn	Sarahmay Schlea
Date	3/7/2022
Checked	_____
Approved	_____



201 South Halaguena Street  
 Carlsbad, New Mexico 88221  
 (575) 689-7040  
 Serving the Southwest & Rocky Mountains



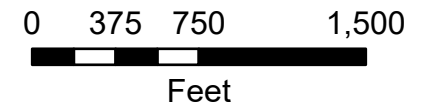


### Legend

- Point of Release
  - Streams & Canals
  - Flowlines SENM
  - FEMA Flood Zones
- Buffer Distance**
- 100 feet
  - 200 feet
  - 300 feet



Scale: 1:10,359



Point of Release Coordinates:  
-103.917747W 32.193848N

Surface Water Protection Map  
 Poker Lake Discharge- Enterprise Field Services LLC  
 UL: B S: 30 T: 24S R: 30E, Eddy, New Mexico

Figure 2

Revisions

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

Drawn Sarahmay Schlea  
 Date 3/8/2022  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_



201 South Halaguena Street  
 Carlsbad, New Mexico 88221  
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C:\Users\ss\Desktop\GIS\Enterprise\Poker Lake\Enterprise - Poker Lake.mxd

Date Saved: 3/8/2022

Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA



### Legend

- Sample Locations
- Point of Release
- Pipeline
- Excavation Area

0 5 10 20  
Feet  
Scale: 1:170

Point of Release Coordinates:  
-103.917747W 32.193848N

Site and Sample Location Map  
Poker Lake Discharge Enterprise Field Services LLC  
UL: B S: 30 T: 24S R: 30E, Eddy County, New Mexico

Figure 3

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

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Drawn	Sarahmay Schlea
Date	3/16/2022
Checked	_____
Approved	_____



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# TABLES

Table 2:  
NMOCD Closure Criteria

Enterprise Field Services  
Poker Lake Discharge  
NAPP2201335979

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	<50	USGS Water Well Record (see Appendix B)
Horizontal Distance From All Water Sources Within 1/2 Mile (mi)	>0.5	USGS Topographic Map / Google Earth
Horizontal Distance to Nearest Significant Watercourse (ft)	1,085	USGS Topographic Map / Google Earth

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		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'	X	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 3:  
Sample ResultsEnterprise Field Services  
Poker Lake Discharge  
NAPP2201335979

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D				Method 300.0
			BTEX	Benzene	GRO	DRO	MRO	Total TPH	Chloride
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure Criteria			50	10	--	--	100	600	
PLC-01	1/25/2022	0-4	<b>0.294</b>	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
	1/25/2022	4-12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<b>36.3</b>
PLC-02	1/25/2022	0-4	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
	1/25/2022	4-12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
PLC-03	1/25/2022	0-4	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
	1/25/2022	4-12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<b>35.8</b>
PLC-04	1/25/2022	0-4	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
	1/25/2022	4-12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<b>40.0</b>
PLC-05	1/25/2022	0-4	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
	1/25/2022	4-12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<b>38.8</b>
PLC-06	1/25/2022	0-4	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
	1/25/2022	4-12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<b>24.5</b>
PLC-BS-07	1/25/2022	12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<b>86.5</b>
PLC-BS-08	1/25/2022	12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
PLC-BS-09	1/25/2022	12	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<b>48.3</b>

Notes: bgs - below ground surface  
 BTEX - benzene, toluene, ethylbenzene, and xylenes  
 GRO - gasoline range organics  
 DRO - diesel range organics  
 MRO - motor oil range organics  
 TPH - total petroleum hydrocarbons  
 mg/Kg - milligrams per kilogram  
 NMOCD - New Mexico Oil Conservation Commission



# 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

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

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

Incident ID	NAPP2201335979
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)	nAPP2201335979
Contact mailing address	PO Box 4324, Houston, TX 77210		

### Location of Release Source

Latitude 32.193848 Longitude -103.917747  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Poker Lake Discharge	Site Type	Gathering Pipeline
Date Release Discovered	01/12/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
B	30	24S	30E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### 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) 1	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 279	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 a gathering pipeline, cause is to be determined.

Incident ID	NAPP2201335719 <span style="float: right;">Page 16 of 57</span>
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 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: 1/14/22  
 email: rhunaway@eprod.com Telephone: 575-628-6802

**OCD Only**

Received by: Ramona Marcus Date: 1/14/2022



**District I**  
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 811 S. First St., Artesia, NM 88210  
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 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 72426

**CONDITIONS**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 72426
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rmarcus	None	1/14/2022

# APPENDIX B

## WATER WELL DATA



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

Click to hide News 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.

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

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

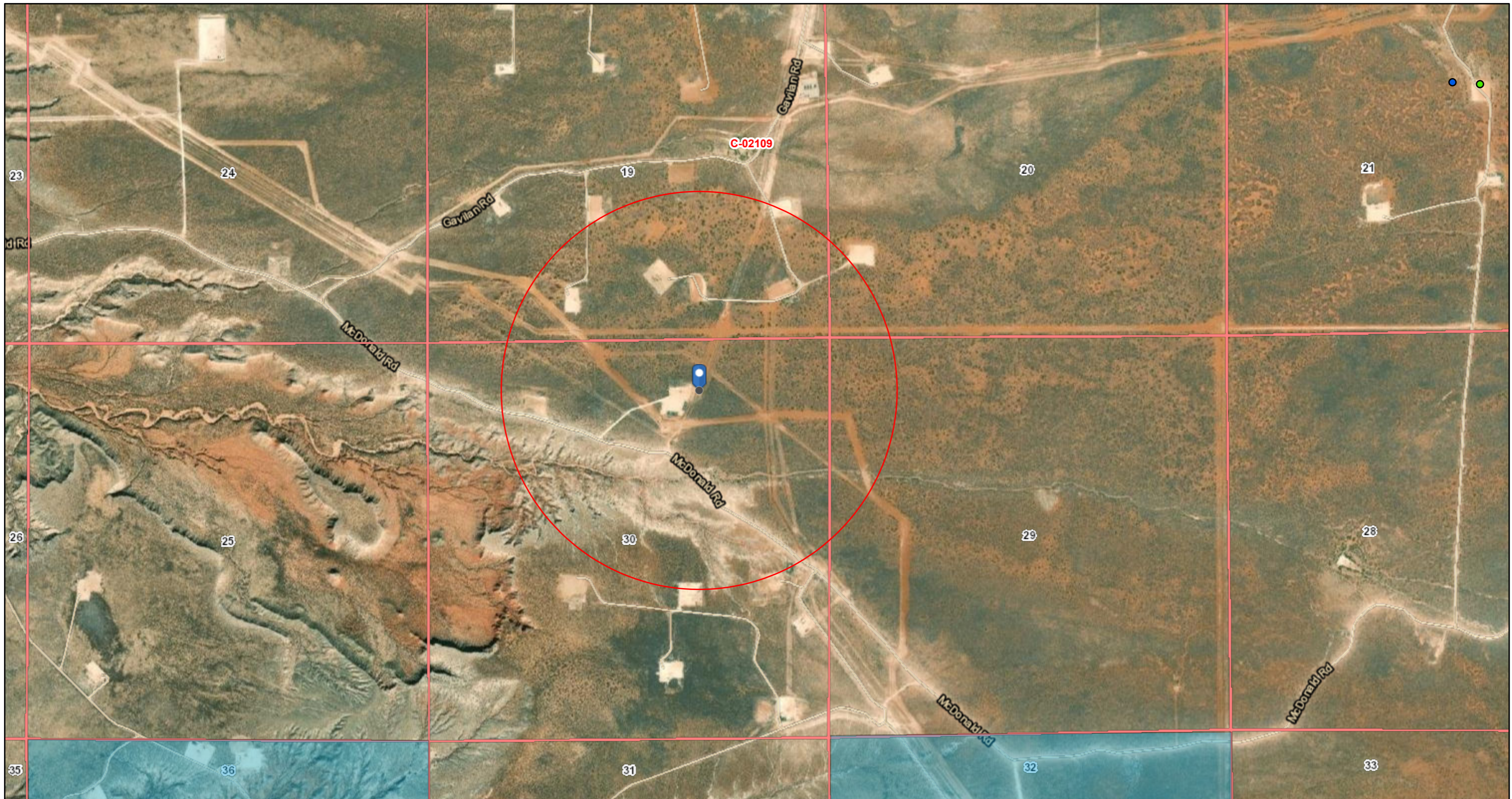


Page Contact Information: [USGS Water Data Support Team](#)

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

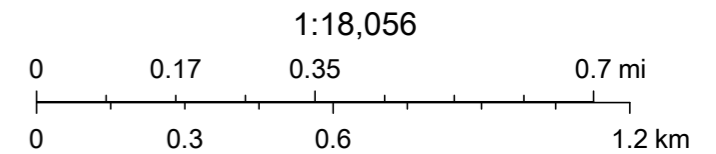
0.4 0.37 nadww01

# OSE POD Locations Map



2/22/2022, 9:24:04 AM

- GIS WATERS PODs
- Active (blue dot)
- Pending (green dot)
- OSE District Boundary (red outline)
- Sections (red outline)
- New Mexico State Trust Lands (light blue fill)
- Both Estates (light blue fill)



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., OSE SLO, Maxar

# APPENDIX C

## SAMPLING PROTOCOL



## Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Envirotech Laboratory in Farmington, New Mexico for analysis. A total of fifteen (15) 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.

## Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured carrier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX D  
FIELD NOTES  
&  
PHOTO LOG



Location Name: BGI Potosi Lake Chesapeake		Date: 1/25/2022				
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	
N wall	0900	0.19	18.5	566.7	Light Tan Gray Yellow	Dark Brown Olive Red
S wall	0910	0.43	18.1	1891.0	Light Tan Gray Yellow	Dark Brown Olive Red
E wall	0915	.08	18.0	55.5	Light Tan Gray Yellow	Dark Brown Olive Red
W wall	0920	.11	17.8	85.0	Light Tan Gray Yellow	Dark Brown Olive Red
Base	0925	.19	17.7	2551.0	Light Tan Gray Yellow	Dark Brown Olive Red
					Light Tan Gray Yellow	Dark Brown Olive Red
					Light Tan Gray Yellow	Dark Brown Olive Red

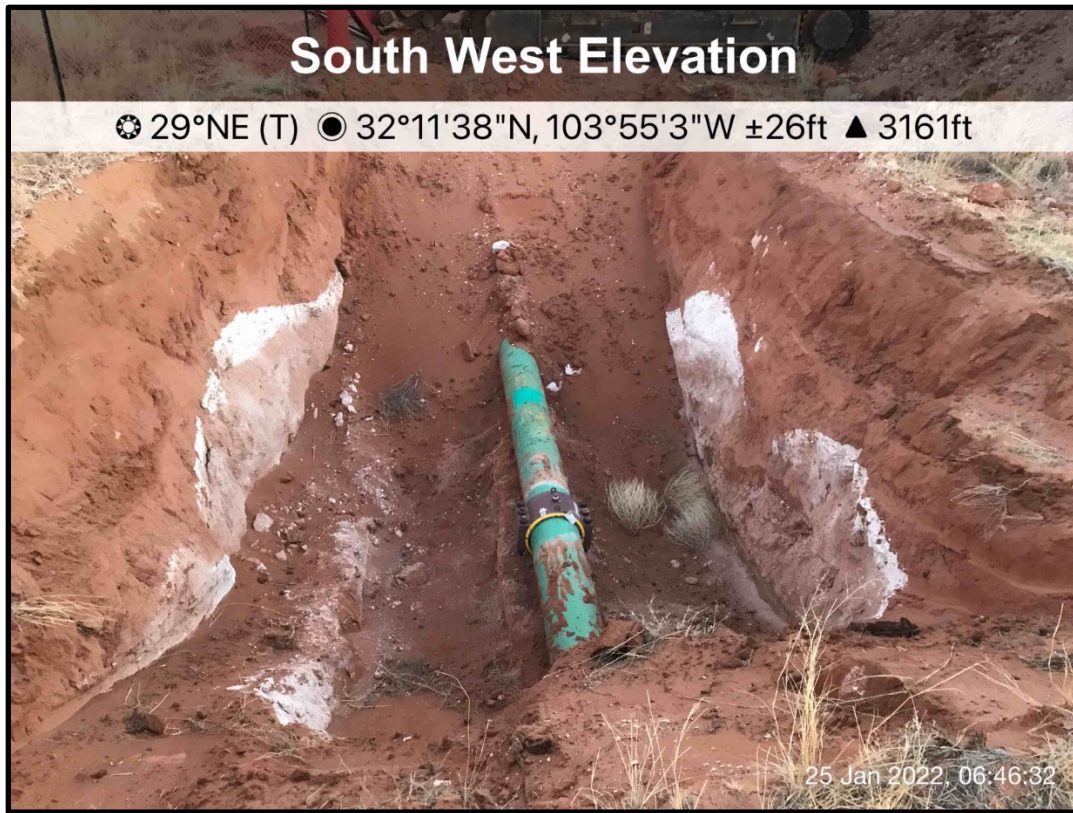
Location Name: BGI Potosi Lake Chesapeake		Date: 1/25/2022						
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Re
N wall @ 6-10	0900	0.19	18.5	566.7	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
S ↓	0910	0.43	18.1	1891.0	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
E ↓	0915	0.8	18.0	55.5	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
W ↓	0920	0.11	17.8	85.0	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
Base @ 10	0925	0.19	17.7	2551.0	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
N wall 2 @ 6-10	1045			1422	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
S wall 2 @ 6-10	1130			2581.0	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
Base E 2 @ 11	1100			1715.0	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet
Base W 2 @ 11	1115			1979	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Rock Silt Clay	Dry Moist Wet

1130 EXC. 28X15X11 = 4620 23 SP SAMPLES  
-200

**ASMA Field Screening**

Location Name: \_\_\_\_\_ Date: \_\_\_\_\_

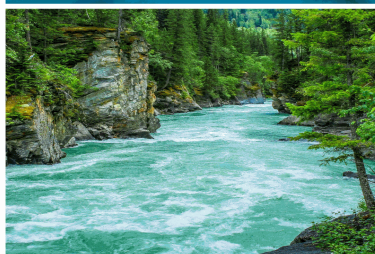
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
EW4 @ 1-4'	1335			60.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
EW5 @ 1-4'	1340			22.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
WW1 @ 1-4'	1320			55.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
WW2 @ 1-4'	1325			532.6	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
SW3 @ 1-4'	1330			89.2	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
NW6 @ 1-4'	1345			66.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
SW9 @ 4-12'					Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
NW10 @ 4-12'					Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
BSE	1350			370	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay	Rock Silt Clay	Dry Moist Wet
BSW	1355			234				



# APPENDIX E

## LABORATORY ANALYTICAL REPORTS

Report to:  
Ashley Maxwell



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Poker Lake Chesapeake

Work Order: E201133

Job Number: 97057-0001

Received: 1/26/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/3/22

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)



Date Reported: 2/3/22

Ashley Maxwell  
201 S Halagueno St.  
Carlsbad, NM 88220

Project Name: Poker Lake Chesapeake  
Workorder: E201133  
Date Received: 1/26/2022 6:30:00PM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2022 6:30:00PM, under the Project Name: Poker Lake Chesapeake.

The analytical test results summarized in this report with the Project Name: Poker Lake Chesapeake apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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**Sample Summary**

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Poker Lake Chesapeake  
Project Number: 97057-0001  
Project Manager: Ashley Maxwell

**Reported:**  
02/03/22 13:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PLC-01 @ 0-4	E201133-01A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-01 @ 4-12	E201133-02A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-02 @ 0-4	E201133-03A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-02 @ 4-12	E201133-04A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-03 @ 0-4	E201133-05A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-03 @ 4-12	E201133-06A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-04 @ 0-4	E201133-07A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-04 @ 4-12	E201133-08A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-05 @ 0-4	E201133-09A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-05 @ 4-12	E201133-10A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-06 @ 0-4	E201133-11A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-06 @ 4-12	E201133-12A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-BS-07	E201133-13A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-BS-08	E201133-14A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.
PLC-BS-09	E201133-15A	Soil	01/25/22	01/26/22	Glass Jar, 4 oz.



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
----------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------	----------------------------------------

**PLC-01 @ 0-4**

**E201133-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	<b>0.0329</b>	0.0250	1	01/27/22	02/01/22	
Toluene	<b>0.0580</b>	0.0250	1	01/27/22	02/01/22	
o-Xylene	<b>0.0495</b>	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	<b>0.154</b>	0.0500	1	01/27/22	02/01/22	
Total Xylenes	<b>0.203</b>	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)		ND	20.0	1	01/27/22	02/01/22
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.5 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)		ND	25.0	1	01/28/22	01/28/22
Oil Range Organics (C28-C36)		ND	50.0	1	01/28/22	01/28/22
<i>Surrogate: n-Nonane</i>		93.4 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2206009
Chloride		ND	20.0	1	02/01/22	02/01/22



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-01 @ 4-12**

**E201133-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		89.5 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	36.3	20.0	1	02/01/22	02/01/22	



## Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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## PLC-02 @ 0-4

## E201133-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		93.0 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	ND	20.0	1	02/01/22	02/01/22	



## Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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## PLC-02 @ 4-12

## E201133-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		92.7 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	ND	20.0	1	02/01/22	02/01/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-03 @ 0-4**

**E201133-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		93.7 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	ND	20.0	1	02/01/22	02/01/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-03 @ 4-12**

**E201133-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.2 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		93.6 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	35.8	20.0	1	02/01/22	02/01/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-04 @ 0-4**

**E201133-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		94.0 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	ND	20.0	1	02/01/22	02/01/22	





### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-04 @ 4-12**

**E201133-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.2 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		89.0 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	40.0	20.0	1	02/01/22	02/01/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-05 @ 0-4**

**E201133-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.9 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		91.5 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	ND	20.0	1	02/01/22	02/01/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-05 @ 4-12**

**E201133-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		91.1 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	38.8	20.0	1	02/01/22	02/01/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-06 @ 0-4**

**E201133-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.5 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		86.1 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	ND	20.0	1	02/01/22	02/01/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-06 @ 4-12**

**E201133-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		94.3 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	24.5	20.0	1	02/01/22	02/02/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-BS-07**

**E201133-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.7 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.4 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		91.4 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	86.5	20.0	1	02/01/22	02/02/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-BS-08**

**E201133-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.4 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		95.3 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	ND	20.0	1	02/01/22	02/02/22	



### Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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**PLC-BS-09**

**E201133-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Benzene	ND	0.0250	1	01/27/22	02/01/22	
Ethylbenzene	ND	0.0250	1	01/27/22	02/01/22	
Toluene	ND	0.0250	1	01/27/22	02/01/22	
o-Xylene	ND	0.0250	1	01/27/22	02/01/22	
p,m-Xylene	ND	0.0500	1	01/27/22	02/01/22	
Total Xylenes	ND	0.0250	1	01/27/22	02/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2205058
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/22	02/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.3 %	70-130	01/27/22	02/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2205061
Diesel Range Organics (C10-C28)	ND	25.0	1	01/28/22	01/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	01/28/22	01/28/22	
<i>Surrogate: n-Nonane</i>		92.5 %	50-200	01/28/22	01/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2206009
Chloride	48.3	20.0	1	02/01/22	02/02/22	





### QC Summary Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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#### Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2205058-BLK1)**

Prepared: 01/27/22 Analyzed: 01/31/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

**LCS (2205058-BS1)**

Prepared: 01/27/22 Analyzed: 01/31/22

Benzene	4.26	0.0250	5.00		85.2	70-130			
Ethylbenzene	4.31	0.0250	5.00		86.2	70-130			
Toluene	4.42	0.0250	5.00		88.3	70-130			
o-Xylene	4.40	0.0250	5.00		88.1	70-130			
p,m-Xylene	8.76	0.0500	10.0		87.6	70-130			
Total Xylenes	13.2	0.0250	15.0		87.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

**Matrix Spike (2205058-MS1)**

Source: E201133-01

Prepared: 01/27/22 Analyzed: 01/31/22

Benzene	4.37	0.0250	5.00	ND	87.5	54-133			
Ethylbenzene	4.45	0.0250	5.00	0.0329	88.2	61-133			
Toluene	4.58	0.0250	5.00	0.0580	90.4	61-130			
o-Xylene	4.57	0.0250	5.00	0.0495	90.3	63-131			
p,m-Xylene	9.08	0.0500	10.0	0.154	89.3	63-131			
Total Xylenes	13.6	0.0250	15.0	0.203	89.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		103	70-130			

**Matrix Spike Dup (2205058-MSD1)**

Source: E201133-01

Prepared: 01/27/22 Analyzed: 01/31/22

Benzene	4.91	0.0250	5.00	ND	98.1	54-133	11.4	20	
Ethylbenzene	5.00	0.0250	5.00	0.0329	99.4	61-133	11.8	20	
Toluene	5.13	0.0250	5.00	0.0580	102	61-130	11.5	20	
o-Xylene	5.12	0.0250	5.00	0.0495	101	63-131	11.4	20	
p,m-Xylene	10.2	0.0500	10.0	0.154	101	63-131	11.6	20	
Total Xylenes	15.3	0.0250	15.0	0.203	101	63-131	11.6	20	
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			



### QC Summary Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2205058-BLK1)**

Prepared: 01/27/22 Analyzed: 01/31/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			

**LCS (2205058-BS2)**

Prepared: 01/27/22 Analyzed: 01/31/22

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			

**Matrix Spike (2205058-MS2)**

Source: E201133-01

Prepared: 01/27/22 Analyzed: 01/31/22

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

**Matrix Spike Dup (2205058-MSD2)**

Source: E201133-01

Prepared: 01/27/22 Analyzed: 01/31/22

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0	ND	112	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			



### QC Summary Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2205061-BLK1)**

Prepared: 01/28/22 Analyzed: 01/28/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.8		50.0		97.6	50-200			

**LCS (2205061-BS1)**

Prepared: 01/28/22 Analyzed: 01/28/22

Diesel Range Organics (C10-C28)	462	25.0	500		92.5	38-132			
Surrogate: <i>n</i> -Nonane	52.2		50.0		104	50-200			

**Matrix Spike (2205061-MS1)**

Source: E201133-10

Prepared: 01/28/22 Analyzed: 01/28/22

Diesel Range Organics (C10-C28)	464	25.0	500	ND	92.8	38-132			
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	50-200			

**Matrix Spike Dup (2205061-MSD1)**

Source: E201133-10

Prepared: 01/28/22 Analyzed: 01/28/22

Diesel Range Organics (C10-C28)	465	25.0	500	ND	92.9	38-132	0.0751	20	
Surrogate: <i>n</i> -Nonane	52.5		50.0		105	50-200			



### QC Summary Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 2/3/2022 1:57:55PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2206009-BLK1)**

Prepared: 02/01/22 Analyzed: 02/01/22

Chloride ND 20.0

**LCS (2206009-BS1)**

Prepared: 02/01/22 Analyzed: 02/01/22

Chloride 249 20.0 250 99.7 90-110

**Matrix Spike (2206009-MS1)**

Source: E201133-01

Prepared: 02/01/22 Analyzed: 02/01/22

Chloride 255 20.0 250 ND 102 80-120

**Matrix Spike Dup (2206009-MSD1)**

Source: E201133-01

Prepared: 02/01/22 Analyzed: 02/01/22

Chloride 252 20.0 250 ND 101 80-120 1.01 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## Definitions and Notes

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Poker Lake Chesapeake Project Number: 97057-0001 Project Manager: Ashley Maxwell	<b>Reported:</b> 02/03/22 13:57
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: SMA Carlisbad STO  
 Project: Poker Lake Chesapeake  
 Project Manager: Ashley Maxwell  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: Ashley Maxwell  
 Report due by: \_\_\_\_\_

Bill To  
 Attention: \_\_\_\_\_  
 Address: Enterprise  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Lab Use Only  
 Lab WO# PE201133 Job Number 97057-000  
 Analysis and Method \_\_\_\_\_ State \_\_\_\_\_

EPA Program  
 TAT 1D 3D RCRA CWA SDWA

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
1320	1/25	soil	1	PLC-01@0-4	1							X		
1330			1	PLC-01@4-12	2									
1335			1	PLC-02@0-4	3									
1340			1	PLC-02@4-12	4									
1350			1	PLC-03@0-4	5									
1355			1	PLC-03@4-12	6									
1405			1	PLC-04@0-4	7									
1410			1	PLC-04@4-12	8									
1415			1	PLC-05@0-4	9									
1420	✓	✓	1	PLC-05@4-12	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: \_\_\_\_\_

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1/26/22</u>	Time <u>1000</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>1-26-22</u>	Time <u>1000</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1-26-22</u>	Time <u>1305</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>1/26/22</u>	Time <u>18:30</u>	
Relinquished by: (Signature) _____	Date _____	Time _____	Received by: (Signature) _____	Date _____	Time _____	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Client: SMA Carlisle  
 Project: Potomac Lake Chesapeake  
 Project Manager: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: Ashley Maxwell  
 Report due by: \_\_\_\_\_

Bill To  
 Attention: \_\_\_\_\_  
 Address: Enterprise  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Lab Use Only  
 Lab WO# PE 201133 Job Number 97057-0001  
 Analysis and Method \_\_\_\_\_ State \_\_\_\_\_

EPA Program  
 TAT: 1D  3D   
 RCRA  CWA  SDWA   
 NM  CO  UT  AZ   
 TX  OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
1430	1/25	Soil	1	PLC-06@0-4	11							X		
1435			1	PLC-06@4-12	12									
<del>1435</del>														<del>PLC</del>
1440			1	PLC-B5-07	13									
1445			1	PLC-B5-08	14									
1450	✓	✓	1	PLC-B5-09	15							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: \_\_\_\_\_

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1/26/22</u>	Time <u>1000</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>1-26-22</u>	Time <u>1000</u>	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1-26-22</u>	Time <u>1305</u>	Received by: (Signature) <u>Charles Christ</u>	Date <u>1/26/22</u>	Time <u>18:30</u>	
Relinquished by: (Signature) _____	Date _____	Time _____	Received by: (Signature) _____	Date _____	Time _____	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 1/28/2022 12:39:53PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Souder Miller Associates - Carlsbad Date Received: 01/26/22 18:30 Work Order ID: E201133
Phone: (505) 325-7535 Date Logged In: 01/26/22 11:23 Logged In By: Caitlin Christian
Email: ashley.maxwell@soudermiller.com Due Date: 02/03/22 17:00 (5 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Carrier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Empty box for Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



**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 92497

**CONDITIONS**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 92497
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	None	3/30/2022